



Government of Karnataka

ZILLA PANCHAYAT BELGAUM

Executive Engineer, P. R. E. Division Chikodi

Assistant Exe. Engr, P.R.E.Sub-Divn, Hukkeri

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**Name of work : CONSTRUCTION OF RASHTRIYA
MADHYAMIKA SHISHA ABHIYANA SCHOOL BUILDING
AT GUTAGUDDI VILLAGE IN HUKKERI TALAKA
BELAGAVI DIST**

ESTIMATED COST : 1,28,53,428.00

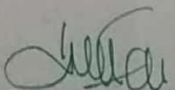
Name of work : CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHISHA
ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI
TALAKA BELAGAVI DIST

GENERAL REPORT

The work Construction of RASHTRIYA MADHYAMIKA SHISHA ABHIYANA SCHOOL BUILDING at GUTAGUDDI VILLAGE is proposed to be constructed with the following provisions.

- 1 EWE for levelling & lowering ground
- 2 EWE for foundation in hard soil
- 3 P/L CC 1;3;6 for Bed concrete flooring concrete & cill concrete
- 4 P/C SSM for foundation, Basement , and BBM for superstructure in CM 1;6
- 5 Earth filling to foundation and basement
- 6 P/L CC 1;3;6 for coping
- 7 P/L CC M 20 concrete for footing column, plinth beam, lintel, chejja, roof beam,
- 8 P/Removaing centering, shuttering for above items
- 9 P/W P C plasterin
- 10 P / Pastering to ceiling and walls inside/outside
- 11 P/F wooden doors/ventilators
- 12 Steel rft.
- 13 P/Flooring with Tandur tiles
- 14 P/Anty Fungal Cement Paint outside , OBD to ceiling and walls , enamel, to doors /ventilators
- 15 Water Supply & Sanitary work
- 16 Electrical Works
- 17 Sump Tank, Soak Pit & Septic tank
- 18 Sinking of Borewell & instalation of pumpest & Electrification

The above provisions have been made in the Plans & estimate is prepared are accordance with 2018-19 Public Works Ports & Inland worter transport Dept.

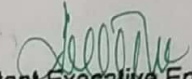

Assistant Executive Engineer
P.R.E Sub-divn,Hukkeri.

Executive Engineer
P.R.E Division Chikkodi

Name of work : CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHISHA
ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI
TALAKA BELAGAVI DIST

CERTIFICATE

This to certify that I Shri A B Pattanshetti , Assistant Executive Engineer. Personally visited spot and prepared the estimate using sanctioned scheduled of rates provided for the most economical and safe way of executing work.

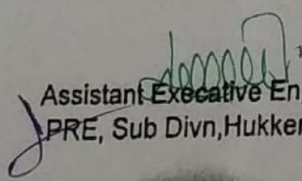

Assistant Executive Engineer,
PRE, Sub Divn, Hukkeri

Name of work : CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHISHA
ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI
TALAKA BELAGAVI DIST

CERTIFICATE

(As required vide G.O.No.


Certified that, sufficient care has been taken while preparing the estimate in respect of the above mentioned work to see that all necessary items which are technically required for the work in sufficient quantity are included while preparing the estimate, and specification of items included are completed and correct.

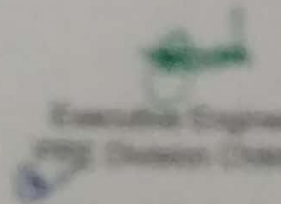

Assistant Executive Engineer,
PRE, Sub Divn, Hukkeri

Executive Engineer,
PRE, Divn, Chikkodi.

**NAME OF WORK: CONSTRUCTION OF RASHTRIYA MAHATANKULA SHIKSHA
ABHYASANA SCHOOL BUILDING AT GUDAGODDER VILLAGE IN MURKURU
TALUKA, BELAGACHI DISTRICT.**

Sl No	Abstract	In Rs
1	Construction of Ground Floor, First Floor and Second Floor	110115496.00
2	Water Supply & Sanitary Works	1134000.00
3	Electrical Works	481170.00
4	Storage Tank, Bore P & Septic Tank	1107563.00
5	Working of Borewell & Installation of Pumpset & Electrification	500401.00
	Sub Total	112752830.00
6	Add 12 % GST	13530340.00
7	Contingency and Tender Premium 1%	1127528.00
	TOTAL	125258438.00


Assistant Executive Engineer
PWE Sub Division Murkur


Executive Engineer
PWE Division Chikmagalur

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

Name Of the Work : Detailed Estimate for New School Building for Upgradation with 4ACR, HM, Office, Arts/Craft/Culture, Science lab, Computer Room, Library - 10 Rooms at KHPS Gutaguddi, Hukkeri Block, Belgaum Chikkodi.

Civil works - Main Building

SL No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
1	KSRB 2-1.1 : Earthwork in surface excavation in Ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note : Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means (PWD North Zone, Dharwad SR 2016-17 - Item No. - 2.01, Page No.5)	Cum							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 2.01, Page No.5)		1	60.00	20.00	0.10	120.00		
						Say	120.00	240.83	28899.00
2	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>Ordinary soil</u> not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
	(PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 2.03, Page No.5)								
	F1		9	2.80	3.00	-	-		
	F2		6	2.50	2.80	-	-		
	F3		9	2.30	2.55	-	-		
	F4		2	2.10	2.30	-	-		
	F5		13	1.70	1.70	-	-		
	Plinth Beam - alround		1	56.32	1.13	-	-		
	Ramp / Platform		1	12.40	0.70	-	-		
	Entrance Steps		1	3.10	0.38	-	-		
	Steps infront of Boys Toilet		1	3.42	0.38	-	-		
	Wall For Drinking water		3	0.60	0.38	-	-		
						Say		313.95	
3	KSRB 2-2.2 : <u>Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits</u> etc, either in pits or in trenches 1.5m and above in width, in <u>hard soil not exceeding 1.5 m. in depth</u> including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
	(PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 2.04, Page No.5)								
	F1		9	2.80	3.00	1.50	113.40		
	F2		6	2.50	2.80	1.50	63.00		
	F3		9	2.30	2.55	1.50	79.18		
	F4		2	2.10	2.30	1.50	14.49		
	F5		13	1.70	1.70	1.50	56.36		
	Plinth Beam - alround		1	56.32	1.13	1.50	95.46		
	Ramp / Platform		1	12.40	0.70	1.50	13.02		
	Entrance Steps		1	3.10	0.38	1.50	1.77		
	Steps infront of Boys Toilet		1	3.42	0.38	1.50	1.95		
	Wall For Drinking water		3	0.60	0.38	1.50	1.03		
							439.64		
						Say	440.00	471.45	207438.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
4	KSRB 2-2.4 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in <u>soft rock without blasting not exceeding 1.50mtrs</u> in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications. specification. No. KRS 2.1C/2.9.4/2.18/2.19	Cum							
	(PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 2.06, Page No.5)								
	F1		9	2.80	3.00	-	-		
	F2		6	2.50	2.80	-	-		
	F3		9	2.30	2.55	-	-		
	F4		2	2.10	2.30	-	-		
	F5		13	1.70	1.70	-	-		
							Say	720.30	
5	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional <u>Anti-Termite Treatment</u> , creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KRS : 3.2.6 / 3.2.7	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 3.02, Page No.9)								
	Plinth Area		1	50	8.00		400.00		
							Say	400.00	111.30
6	KSRB 4-1.3 : Providing and laying in position <u>plain cement concrete of mix 1:4:8</u> with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KRS 4.1, 4.2	Cum							
	(PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 4.03, Page No.12)								
	Footing								
	F1		9	2.10	2.30	0.15	6.52		
	F2		6	1.80	2.10	0.15	3.40		
	F3		9	1.60	1.85	0.15	4.00		
	F4		2	1.40	1.60	0.15	0.67		
	F5		13	1.00	1.00	0.15	1.95		
	Plinth Beam - intermediate		1	108.60	0.38	0.10	4.13		
	Plinth Beam - around		1	105.03	0.38	0.10	3.99		
	Below BBM								
	Platform		1	5.50	0.75	0.10	0.41		
	Ramp		1	6.90	0.75	0.10	0.52		
	Entrance Steps		1	3.70	0.38	0.10	0.14		
	Steps in front of Boys Toilet		1	3.42	0.38	0.10	0.13		
	For Flooring								
	Class Room 1, 2 & 3		3	8.20	6.00	0.10	14.76		
	HM room & Office room		2	8.20	6.00	0.10	9.84		
	Staircase Portion		1	2.40	6.23	0.10	1.50		
	Toilet Room		1	4.00	6.00	0.10	2.40		
	Corridor		1	49.23	1.50	0.10	7.38		
	Platform/Stage		1	4.00	0.90	0.10	0.36		
			1	1.50	0.60	0.10	0.09		
	Ramp		1	5.40	1.50	0.10	0.81		

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
	Walls For Drinking Water		3	0.45	0.38	0.10	0.05		
	Approch Road		1	150.00	3.50	0.10	52.50		
	Flagging Conrete		1	117.37	0.60	0.10	7.04		
							122.49		
						Say	123.00	3545.89	682144.00
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggretes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.06, Page No.12)								
	Ground Floor								
	Window Cills								
	W		9	2.10	0.23	0.10	0.43		
	W1		10	1.50	0.23	0.10	0.35		
	V1		2	2.10	0.23	0.10	0.10		
	V2		-1	2.10	0.23	0.10	0.05		
	V3		1	0.90	0.23	0.10	0.02		
	Staircase Window		1	2.70	0.23	0.10	0.06		
	Cill for Railings - Ramp		1	9.00	0.15	0.10	0.14		
							1.14		
						Say	2.00	5917.17	11834.00
	First Floor								
	Window Cills								
	W		11	2.10	0.23	0.10	0.53		
	W1		11	1.50	0.23	0.10	0.38		
	Staircase Window		1	2.70	0.23	0.10	0.06		
	Coping - Bacony Parapet		1	52.23	0.12	0.10	0.60		
							1.57		
						Say	2.00	5917.17	11834.00
	Terrace								
	Parapet Coping		1	114.37	0.12	0.10	1.32		
						Say	2.00	5917.17	11834.00
8	KSRB 2.5 : <u>Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms.</u> in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1	cum							
	(PWP&IWD North Zone, Dharwad SR 2016-17 - Item No. - 2.12, Page No.6)								
	For Ramp		1	5.40	1.05	0.23	1.28		
	Ramp Landing		1	1.50	1.05	0.45	0.71		
	Platform		1	2.05	0.90	0.45	0.83		
	Entrance Step -1		1	2.04	0.90	0.15	0.28		
	Entrance Step 2		1	2.04	0.60	0.15	0.18		
	Entrance Step 3		1	2.04	0.30	0.15	0.09		
	Steps infront of Boys Toilet								
	Step-1		1	2.96	1.20	0.15	0.53		
	Step-2		1	2.36	0.90	0.15	0.32		
	Step-3		1	1.76	0.60	0.15	0.16		
	Step-4		1	1.76	0.30	0.15	0.08		
	Dias		3	3.54	1.27	0.15	2.02		
	Class Room1, 2,3, Office room & HM room		5	8.20	6.00	0.60	147.60		
	Boys & Girls Toilet		2	4.00	6.00	0.60	28.80		
	Staircase area		1	2.40	6.23	0.60	8.97		
	Corridor		1	49.23	1.50	0.60	44.30		
	Drinking water Portion		6	0.45	0.15	0.40	0.16		
	EWE in ordinary soil, Hard soil & Soft Rock						440.00		
	Total Filling Qty Required						676.31		
	Deduct For								
	PCC for footings, Plinth						-20.53		
	RCC for footings, plinth, column						-69.91		
	Available Excavated Earth						585.87		
	Net Deposited Soil						-440.00		
	Add 30% for Plinth Variation						145.87		
							43.76		

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
							189.63		
						Say	190.00	423.15	80399.00
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KRS 2.9	Cum							
	(PWD/WDTD North Zone, Dharwad SR 2016-17 - Item No. - 2.10, Page No.6)						440.00		
	Available Excavated Earth					Say	440.00	211.05	92862.00
10	KSRB 8.5 : Providing and laying clinder concrete in cement 1:25 (1 cement : 25 clinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid in slope compacting, including cost of materials, labour, curing complete as per specifications.								
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 8.04, Page No.46)								
	First Floor		4	1.54	1.27	0.15	2.70		
	Filling for Drain					Say	3.00	2069.55	6209.00
11	KSRB 4.6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2	Sqm							
	(PWD/WDTD North Zone, Dharwad SR 2016-17 - Item No. - 4.28, Page No.13)								
	For P.C.C. Bed		9	4.80		0.15	11.88		
	F1		8	7.80		0.15	7.02		
	F2		9	6.90		0.15	9.32		
	F3		2	6.00		0.15	1.80		
	F4		13	4.00		0.15	7.80		
	F5								
	For Footing		9	8.00		0.50	36.00		
	F1		6	7.00		0.45	18.90		
	F2		9	6.10		0.575	20.54		
	F3		2	5.20		0.575	5.90		
	F4		13	5.30		0.50	12.48		
	F5						129.68		
						Say	130.00	287.75	34806.00
12	KSRB 4.6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pillars, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.31, Page No.13)	Sqm							
	Below Ground Floor		1	108.60		0.90	97.74		
	Plinth Beam - intermediate		1	105.05		2.40	252.07		
	Plinth Beam - abutment						349.81		
						Say	350.00	374.85	131188.00
13	KSRB 4.6.3 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2	Sqm							
	(PWD/WDTD North Zone, Dharwad SR 2016-17 - Item No. - 4.32, Page No.14)								
	Below Ground Floor		11	1.36		0.85	12.77		
	F1		7	1.36		0.90	6.57		
	F2		4	1.36		0.98	5.50		
	F3		4	1.36		0.98	5.50		

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
			13	0.92		1.05	12.56		
							44.45		
						Say	45.00	478.80	21546.00
	Ground Floor								
	C1		11	1.36		2.70	40.39		
	C2		7	1.36		2.70	25.70		
	C3		4	1.36		2.70	14.69		
	C4		4	1.36		2.70	14.69		
							95.47		
						Say	96.00	478.80	45965.00
	First Floor								
	C1		11	1.36		2.70	40.39		
	C2		7	1.36		2.70	25.70		
	C3		4	1.36		2.70	14.69		
	C4		4	1.36		2.70	14.69		
	CP For Parapet wall Supporting		13	0.92		1.20	14.35		
							109.82		
						Say	110.00	478.80	52868.00
14	K20 4.4.7 Providing and removing centering, shuttering, erecting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever, girders, brackets and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. K20 4.4.2	Sqm							
	CPWA/INTD North Zone, Utharwad SR 2014-17 - Item No. - 4.34, Page No.101								
	Unit								
	Ground Floor								
	Grid A		1	3.90		0.63	2.51		
			10	3.90		0.63	24.41		
			1	2.40		0.63	1.51		
	Grid B		1	3.90		0.63	2.51		
			10	3.90		0.63	24.41		
	Grid 1 & 11		2	7.96		0.63	10.03		
	W.M Room Toilet		2	1.50		0.63	1.89		
	Roof & Cable Trench - WC		2	1.52		0.63	1.66		
							68.93		
						Say	69.00	306.60	21133.00
	First Floor								
	Grid A		1	3.90		0.63	2.51		
			10	3.90		0.63	24.41		
			1	2.40		0.63	1.51		
	Grid B		1	3.90		0.63	2.51		
			10	3.90		0.63	24.41		
	Grid 1 & 11		2	7.96		0.63	10.03		
							65.39		
						Say	66.00	306.60	20236.00
	Roof Deck								
	Ground Floor								
	FR1 - Grid A		1	49.23		0.98	48.25		
	FR2 - Grid B		1	49.23		0.93	40.86		
	FR3 - Grid C		1	49.23		0.96	48.25		
	FR4		1	2.40		0.93	1.99		
	FR5, FR6A - Grid 1, 11		2	7.27		0.96	14.23		
	FR6, FR6A - Grid 2, 4, 8, 11		4	7.27		0.93	24.14		
	FR5, FR6A - Grid 3, 5, 9, 10, 12		5	7.27		0.93	30.17		
	FR6, FR6A - Grid 6, 7		2	7.27		0.93	12.07		
							219.97		
						Say	220.00	306.60	67452.00
	First Floor								
	FR1 - Grid A		1	49.23		0.98	48.25		
	FR2 - Grid B		1	49.23		0.93	40.86		
	FR3 - Grid C		1	49.23		0.96	48.25		
	FR4		1	2.40		0.93	1.99		
	FR5, FR6A - Grid 1, 11		2	7.27		0.96	14.23		
	FR6, FR6A - Grid 2, 4, 8, 11		4	7.27		0.93	24.14		
	FR5, FR6A - Grid 3, 5, 9, 10, 12		5	7.27		0.93	30.17		
	FR6, FR6A - Grid 6, 7		2	7.27		0.93	12.07		
							219.97		
						Say	220.00	306.60	67452.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
15	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for <u>chajjas, corbels</u> etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm							
	(PWP&IWTN North Zone, Dharwad SR 2016-17 - Item No. - 4.37, Page No.16)								
	Ground Floor								
	D2		1	1.05	0.60		0.63		
	W		9	2.10	0.60		11.34		
	V1		2	2.10	0.60		2.52		
	V3		1	0.90	0.60		0.54		
	Staircase window		1	2.70	0.60		1.62		
							16.65		
	First Floor					Say	17.00	336.00	5712.00
	W		11	2.10	0.60		13.86		
						Say	14.00	278.25	3896.00
16	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of <u>form work for Stairs</u> (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2	Sqm							
	(PWP&IWTN North Zone, Dharwad SR 2016-17 - Item No. - 4.38, Page No.16)								
	Ground Floor								
	Staircase								
	Waist slab		1	3.85	1.20		4.62		
			1	2.75	1.20		3.30		
	Sides		-1	3.85		0.175	0.67		
			1	2.75		0.175	0.48		
	Riser		21	1.20		0.15	3.78		
							12.86		
						Say	13.00	526.05	6839.00
17	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <u>flat surface such as roofs, landings, balconies and likes</u> , thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2	Sqm							
	(PWP&IWTN North Zone, Dharwad SR 2016-17 - Item No. - 4.18, Page No.15)								
	Ground Floor								
	S1		3	3.985	6.00		71.73		
	S2		8	3.985	6.00		191.28		
	S3		11	3.985	1.27		55.67		
	S3		1	2.400	1.27		3.05		
	Mid Landing		1	2.40	1.20		2.88		
	Drinking water Portion		1	3.23	0.45		1.45		
							326.06		
	First Floor					Say	327.00	415.80	135967.00
	S1		3	3.985	6.00		71.73		
	S2		8	3.985	6.00		191.28		
	S3		11	3.985	1.27		55.67		
	S4		1	2.400	1.27		3.05		
	For Trap Door - Allround		1	6.00	2.40		14.40		
	Deduct for Opening		-1	0.60	0.15		0.36		
							(0.36)		
							336.13		
						Say	337.00	415.80	140125.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
18	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 Cum. and fine aggregates @ 0.47Cum., with super plasticisers @ 3 liters conforming to IS 9103-1999 readmixed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HDM of machinery, curing, complete but excluding cost of reinforcement as per specifications Specification No. KRS 4.1, 4.6	Cum							
	(PWD) North Zone, Bharwad SR 2016-17 - Item No. - 4.10, Page No.12)								
	Below Ground Level								
	Footings								
	F1		9	1.90	2.10	0.50	17.96		
	F2		6	1.60	1.90	0.45	8.21		
	F3		9	1.40	1.65	0.375	7.80		
	F4		2	1.20	1.40	0.175	1.26		
	F5		13	0.80	0.80	0.30	2.50		
							37.72		
	Plinth Beam								
	Plinth Beam - intermediate		1	108.60	0.25	0.45	11.24		
	Plinth Beam - aligned		1	105.00	0.25	1.20	28.99		
							40.23		
							77.94		
							Say	78.00	6716.17
									492661.00
19	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplasticiser @3liters conforming to IS9103-1999 Readmixed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillers etc., including cost of all materials, labour, HDM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KRS 4.1, 4.6	Cum							
	(PWD) North Zone, Bharwad SR 2016-17 - Item No. - 4.12, Page No.13)								
	Below Ground Level								
	Columns								
	C1		11	0.25	0.45	0.85	0.97		
	C2		7	0.25	0.45	0.9	0.65		
	C3		4	0.25	0.45	0.975	0.40		
	C4		4	0.25	0.45	0.975	0.40		
	C5		13	0.25	0.25	1.05	0.72		
							3.15		
	Ground Floor								
	Columns								
	C1		11	0.25	0.45	2.70	3.07		
	C2		7	0.25	0.45	2.70	1.96		
	C3		4	0.25	0.45	2.70	1.12		
	C4		4	0.25	0.45	2.70	1.12		
							7.27		
	Beams								
	Beam A		1	3.90	0.25	0.20	0.18		
	Beam B		10	3.80	0.25	0.20	1.79		
	Beam C		1	2.40	0.25	0.20	0.11		
	Beam D		1	3.90	0.25	0.20	0.18		
	Beam E		10	3.80	0.25	0.20	1.79		
	Beam F & G		2	7.90	0.25	0.20	0.71		
	100mm Riser Trunk		2	1.50	0.25	0.20	0.14		
	Door & Lath Jamb - etc.		2	1.50	0.25	0.20	0.12		
							4.89		

SL No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Roof Beam								
	FB1 - Grid A		1	49.23	0.23	0.30	3.40		
	FB2 - Grid B		1	49.23	0.23	0.30	3.40		
	FB7 - Grid C		1	49.23	0.23	0.30	3.40		
	FB8		1	2.40	0.23	0.30	0.17		
	FB3, FB3A - Grid 1, 13		2	7.27	0.23	0.30	1.00		
	FB4, FB4A - Grid 2, 4, 9, 11		4	7.27	0.23	0.30	2.01		
	FB5, FB5A - Grid 3, 5, 8, 10, 12		5	7.27	0.23	0.30	2.51		
	FB6, FB6A - Grid 6, 7		2	7.27	0.23	0.30	1.00		
							16.88		
	Slabs								
	S1		3	3.985	6.00	0.15	10.76		
	S2		8	3.985	6.00	0.15	28.69		
	S3		11	3.985	1.27	0.15	8.35		
	S3		1	2.400	1.27	0.15	0.46		
	Mid Landing		1	2.40	1.20	0.15	0.43		
	Drinking water Portion		1	3.23	0.45	0.10	0.15		
							48.84		
	Staircase								
	Waist slab		1	3.85	1.20	0.175	0.81		
			1	2.75	1.20	0.175	0.58		
	Steps		21	1.20	0.30	0.15	1.13		
							2.52		
							83.68		
						Say	84.00	6560.82	551109.00
	First Floor								
	Coulmns								
	C1		11	0.23	0.45	2.70	3.07		
	C2		7	0.23	0.45	2.70	1.96		
	C3		4	0.23	0.45	2.70	1.12		
	C4		4	0.23	0.45	2.70	1.12		
	CP - For Parapet wall Supporting		13	0.23	0.23	1.20	0.83		
							8.09		
	Lintels								
	Grid A		1	3.99	0.23	0.20	0.18		
	Grid A		10	3.88	0.23	0.20	1.78		
	Grid A		1	2.40	0.23	0.20	0.11		
	Grid B		1	3.99	0.23	0.20	0.18		
	Grid B		1	3.99	0.23	0.20	0.18		
	Grid B		10	3.88	0.23	0.20	1.78		
	Grid B		1	2.40	0.23	0.20	0.11		
	Grid 1 & 13		2	1.80	0.23	0.20	0.17		
							4.50		
	Roof Beams								
	FB1 - Grid A		1	49.23	0.23	0.30	3.40		
	FB2 - Grid B		1	49.23	0.23	0.30	3.40		
	FB7 - Grid C		1	49.23	0.23	0.30	3.40		
	FB8		1	2.40	0.23	0.30	0.17		
	FB3, FB3A - Grid 1, 13		2	7.27	0.23	0.30	1.00		
	FB4, FB4A - Grid 2, 4, 9, 11		4	7.27	0.23	0.30	2.01		
	FB5, FB5A - Grid 3, 5, 8, 10, 12		5	7.27	0.23	0.30	2.51		
	FB6, FB6A - Grid 6, 7		2	7.27	0.23	0.30	1.00		
							16.88		
	Slabs								
	S1		3	3.985	6.00	0.15	10.76		
	S2		8	3.985	6.00	0.15	28.69		
	S3		11	3.985	1.27	0.15	8.35		
	S3		1	2.400	1.27	0.15	0.46		
	S4		1	6.00	2.40	0.15	2.16		
	For Trap Door - Allround		4	0.60	0.15	0.23	0.08		
	Deduct for Opening		-1	0.60	0.60	0.15	(0.05)		
							50.45		
							79.92		
						Say	80.00	6560.82	524866.00
20	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175Cum. and fine aggretes @ 0.0345Cum., with superplastisier @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness , upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Sqm							

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	(PWP&IWD North Zone, Dharwad SR 2016-17 - Item No. - 4.19, Page No.14)								
	Ground Floor								
	D2		1	1.05	0.60		0.63		
	W		9	2.10	0.60		11.34		
	V1		2	2.10	0.60		2.52		
	V3		1	0.90	0.60		0.54		
	Staircase window		1	2.70	0.60		1.62		
							16.65		
	First Floor						Say 17.00	467.36	7945.00
	W		11	2.10	0.60		13.86		
							Say 14.00	467.36	6543.00
21	KSRB 4-2.12 : Extra for providing throating or <u>drip moulding</u> to R.C.C. chajja with plastering (labour charges only) as per specifications. Specification No. KBS	m							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.21, Page No.14)								
	Ground Floor								
	D2		1	2.25			2.25		
	W		9	3.30			29.70		
	V1		2	3.30			6.60		
	V3		1	2.10			2.10		
	Staircase window		1	3.90			3.90		
							44.55		
	First Floor						Say 45.00	34.65	1559.00
	W		11	3.30			36.30		
							Say 37.00	34.65	1282.00
22	KSRB 4.9.2 : Providing <u>T.M.T steel reinforcement for R.C.C work</u> including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - <u>TMT bars Fe 500</u>	Tonne							
	(PWP&IWD North Zone, Dharwad SR 2016-17 - Item No. - 4.46.2, Page No.17)								
	Below Ground Level								
	Footings	Cum		37.72	40.00	Kg/Cum	1508.61		
	Plinth beam	Cum		40.23	76.00	Kg/Cum	3057.36		
	Columns	Cum		3.15	150.00	Kg/Cum	472.37		
						Kgs	5038.34		
						MT	5.04		
						Say	5.10	73821.30	376489.00
	Ground Floor								
	Columns	Cum		7.27	150.00	Kg/Cum	1089.86		
	Lintel	Cum		5.03	100.00	Kg/Cum	503.33		
	Beams	Cum		16.88	125.00	Kg/Cum	2109.68		
	Slab	Cum		48.84	80.00	Kg/Cum	3906.93		
	Staircase	Cum		2.52	125.00	Kg/Cum	315.00		
	Chajja	Sqm		17.00	20.00	Kg/Sqm	340.00		
						Kgs	8264.79		
						MT	8.26		
						Say	8.30	73821.30	612717.00
	First Floor								
	Columns	Cum		8.09	150.00	Kg/Cum	1213.64		
	Lintel	Cum		4.50	100.00	Kg/Cum	450.13		
	Beams	Cum		16.88	125.00	Kg/Cum	2109.68		
	Slab	Cum		50.45	80.00	Kg/Cum	4035.85		
	Chajja	Sqm		14.00	20.00	Kg/Sqm	280.00		
						Kgs	8089.29		
						MT	8.09		
						Say	8.10	73821.30	597953.00

Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
KSRB 6-13 : Providing and constructing <u>burnt brick masonry for basement and superstructure</u> with approved quality of non-modular bricks of standard size of <u>class designation 3.5 Newton per sqmm</u> with <u>cement mortar 1:6</u> including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	Cum							
PWD North Zone, Dharwad SR 2016-17 - Item No. - 6.03, Page No.27)								
Ground Floor								
Grid A	1	45.14	0.23	2.70	28.03			
Grid B	1	42.74	0.23	2.70	26.54			
Grid 1,2,4,6,7,9,11 & 13	8	5.56	0.23	2.70	27.62			
Entrance Step-1	1	4.30	0.23	0.15	0.15			
Entrance Step-2	1	3.70	0.23	0.15	0.13			
Entrance Step-3	1	3.10	0.23	0.15	0.11			
Ramp	1	5.40	0.23	0.23	0.28			
	1	1.50	0.23	0.45	0.16			
Platform/Stage	1	5.50	0.23	0.45	0.57			
Steps infront of Boys Toilet								
Step-1	1	2.96	1.20	0.15	0.53			
Step-2	1	2.36	0.90	0.15	0.32			
Step-3	1	1.76	0.60	0.15	0.16			
Step-4	1	1.46	0.60	0.15	0.13			
Dias	3	7.00	0.23	0.30	1.45			
Wall For Drink Water	3	0.45	0.23	0.90	0.28			
Deductions								
D1	-8	1.20	0.23	2.10	-4.64			
D2	-4	0.75	0.23	2.10	-1.45			
W	-9	1.80	0.23	1.20	-4.47			
W1	-10	1.20	0.23	1.20	-3.31			
V1	-2	1.80	0.23	0.60	-0.50			
V2	-1	1.80	0.23	0.60	-0.25			
V3	-1	0.60	0.23	0.60	-0.08			
Staircase Window	-1	2.40	0.23	1.20	-0.66			
					71.08			
				Say	72.00	6355.23	457577.00	
First Floor								
Grid A	1	45.14	0.23	2.70	28.03			
Grid B	1	42.74	0.23	2.70	26.54			
Grid 1,4,6,7,9,11 & 13	7	5.56	0.23	2.70	24.17			
Dias	4	7.00	0.23	0.30	1.93			
Deductions					-			
D1	-6	1.20	0.23	2.10	(3.48)			
W	-11	1.80	0.23	1.20	(5.46)			
W1	-11	1.20	0.23	1.20	(3.64)			
					68.08			
				Say	69.00	6355.23	438511.00	
Terrace								
Dummy Columns	26	0.23	0.23	0.90	1.24			
				Say	2.00	6355.23	12710.00	
KSRB 6-73 : Construction of <u>partition wall 11.2 cms thick</u> with <u>non-modular ground moulded burnt bricks of class designation 3.5 Newton per sqmm</u> with <u>cement mortar 1:4</u> including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	Sqm							
(PWD North Zone, Dharwad SR 2016-17 - Item No. - 6.25, Page No.28)								
Ground Floor								
Toilet Room @ HM Room	1	3.72		2.70	10.03			
Wash area - HM Room	1	2.52		2.70	6.79			
Girls Toilet Room	1	2.82		2.10	5.91			
Wash area - Girls Toilet	2	0.71		2.10	2.96			
Boys Toilet Room	1	2.82		2.10	5.91			
Drinking water portion - truff area	1	3.93		0.23	0.90			
Deductions					-			
D2	-4	0.75		2.10	(6.30)			
					26.21			
				Say	27.00	832.80	22486.00	
First Floor								
Parapet Wall for Balcony	1	50.73		1.20	60.87			
				Say	61.00	832.80	50801.00	

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Terrace								
	Parapet Wall		1	114.37		0.90	102.93		
						Say	103.00	832.80	85778.00
25	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Outside plastering)	Sqm							
	(PWP&IWD North Zone, Dharwad SR 2016-17 - Item No. - 15.17, Page No.114)								
	Ground Floor								
	Grid 1, 13		2	6.46		3.15	40.70		
	Grid A, B		2	49.23		3.15	310.12		
	Ramp slope portion		1	6.90	1.50		10.35		
	Ramp		1	6.90		0.23	1.55		
	Ramp Landing		1	3.00		0.45	1.35		
	Staircase walls		1	14.86		3.15	46.81		
	Platform/ Stage		1	4.00		0.45	1.80		
	Waist slab		1	3.85	1.20		4.62		
			1	2.75	1.20		3.30		
	Entance Step-1		1	3.40		0.15	0.51		
			1	2.50	0.30		0.75		
	Entance Step-2		1	3.10		0.15	0.47		
			1	2.50	0.30		0.75		
	Entance Step-3		1	2.80		0.15	0.42		
			1	2.50	0.30		0.75		
	Steps infront of Boys Toilet								
	Step-1		1	3.42		0.15	0.51		
			1	1.02	0.30		0.30		
	Step-2		1	2.82		0.15	0.42		
			1	1.02	0.30		0.30		
	Step-3		1	2.22		0.15	0.33		
			1	1.02	0.30		0.30		
	Step-4		1	1.62		0.15	0.24		
			1	1.02	0.30		0.30		
	Chajja Plastering								
	D2		2	1.05	0.60		1.26		
			1	3.30		0.10	0.33		
	V1		4	2.10	0.60		5.04		
			2	5.40		0.10	1.08		
	V3		2	0.90	0.60		1.08		
			-1	3.00		0.10	0.30		
	W		18	2.10	0.60		22.68		
			9	5.40		0.10	4.86		
	Staircase Window		2	2.70	0.60		3.24		
			1	6.60		0.10	0.66		
	Along Corridor		2	57.54		0.45	51.79		
			1	57.54	0.23		13.23		
	Drinking water portion - wall		3	1.13		0.60	2.03		
	Drinking water portion - truf area		1	4.13		0.23	0.95		
	Deduction for opening	Coeff							
	D1	0.5	-8	1.20		2.10	-10.08		
	D2	0.5	-2	0.75		2.10	-1.58		
	W	0.5	-9	1.80		1.20	-9.72		
	W1	0.5	-10	1.20		1.20	-7.20		
	V1	0.5	-2	1.80		0.60	-1.08		
	V2	0.5	-1	1.80		0.60	-0.54		
	V3	0.5	-1	0.60		0.60	-0.18		
	Staircase Window	0.5	-1	2.40		1.20	-1.44		
							503.69		
						Say	504.00	257.73	129897.00
	First Floor								
	Grid 1, 13		2	6.46		3.15	40.70		
	Grid A, B		2	49.23		3.15	310.12		
	Staircase walls		1	14.86		3.15	46.81		
	Balcony - Parapet		2	50.73		1.20	121.74		
			1	50.73	0.12		5.83		
	Waist slab		1	3.85	1.20		4.62		
			1	2.75	1.20		3.30		
	Chajja Plastering								
	W		22	2.10	0.60		27.72		

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Staircase Window		11	5.40		0.10	5.94		
			2	2.70	0.60		3.24		
	Along Corridor		1	6.60		0.10	0.66		
			2	57.54		0.45	51.79		
			1	57.54	0.23		13.23		
	Deduction for opening	Coeff							
	D1	0.5	-6	1.20		2.10	-7.56		
	W	0.5	-11	1.80		1.20	-11.88		
	W1	0.5	-11	1.20		1.20	-7.92		
	Supporting Piers		26	0.92		1.20	28.70		
							637.04		
	Terrace					Say	638.00	257.73	164434.00
	Parapet		2	114.37		0.90	205.87		
			1	114.37	0.12		13.15		
	Dummy Columns		26	0.92		0.90	21.53		
							240.55		
						Say	241.00	257.73	62114.00
26	KSRB15-4.4 Extra for providing and mixing <u>waterproofing compound in cement plaster work at one kg per bag</u> or in the proportion recommended by the manufacturers, <u>for cement mortar 1:4, 18mm thick</u> cost of materials complete as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.26, Page No.114)								
	Ground Floor								
	Qty same as External Plastering						504.00	8.40	4234.00
	First Floor								
	Qty same as External Plastering						638.00	8.40	5359.00
	Terrace								
	Qty same as External Plastering						241.00	8.40	2024.00
27	Providing <u>plastering in grooves 10mm wide and 10mm deep @ the column / beam junctions etc.</u> complete to the plumb and alignment with smooth finishing including cost of all materials, labour, curing etc., complete as per the directions of the Engineering-in-Charge.	m							
	(PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 15.35, Page No.115)								
	Ground Floor								
	Wall to Beam Junction		3	150.00			450.00		
	Wall Column Junction		100			3.00	300.00		
							750.00		
						Say	750.00	18.00	13500.00
	First Floor								
	Wall to Beam Junction		3	150.00			450.00		
	Wall Column Junction		100			3.00	300.00		
							750.00		
						Say	750.00	18.00	13500.00
28	KSRB15-3.6 : Providing <u>15mm thick cement plaster in single coat with cement mortar 1:6</u> , to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Internal Plastering)	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.14, Page No.113)								
	Ground Floor								
	Class Room1, 2, 3, HM room & Office room		5	28.40		3.10	440.20		
	Toilet in HM Room		1	7.20		0.90	6.48		
	Wash Area in HM Room		1	4.80		1.80	8.64		
	Boys Toilet		1	13.50		0.90	12.15		
	Girls Toilet		1	13.50		0.90	12.15		
	Wash Area		1	2.91		0.90	2.62		
	Deductions	Coeff							
	D1	0.50	-8	1.20		2.10	-10.08		
	D2	0.50	-6	0.75		2.10	-4.73		
	W	0.50	-10	1.80		1.20	-10.80		
	W1	0.50	-10	1.20		1.20	-7.20		

SL No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
	@ Staircase	0.50	-1	2.40		1.20	-1.44		
							447.99		
						Say	448.00	218.88	96062.00
	First Floor								
	Art/craft/culture, class room ⁴ , Science lab, computer room		4	28.40		3.00	340.80		
	Library		1	36.80		3.00	110.40		
	Deductions	Coeff							
	D1	0.50	-6	1.20		2.10	-7.56		
	W	0.50	-11	1.80		1.20	-11.88		
	W1	0.50	-11	1.20		1.20	-7.92		
							423.54		
						Say	424.00	218.88	92806.00
29	KSRB15-3-13 : Providing <u>12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling</u> including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.21, Page No.114)								
	Ground Floor								
	HM Room, office Room, class room -1, 2, 3		5	8.20	6.00		246.00		
	Boys Toilet		1	3.98	2.77		11.02		
	Girls Toilet		1	3.98	2.77		11.02		
	Beam Plastering Internal		12	6.00		0.30	21.60		
			12	6.00	0.23		16.56		
	Corridor Portion		1	49.23	1.50		73.84		
							380.05		
						Say	381.00	246.18	93796.00
	First Floor								
	Library		1	12.40	6.00		74.40		
	Art Craft & Culture, Class Room-4, Science Lab, Computer Room		4	8.20	6.00		196.80		
	At Staircase		1	2.40	6.00		14.40		
	Beam Plastering Internal		12	6.00		0.30	21.60		
			12	6.00	0.23		16.56		
	Corridor Portion		1	49.23	1.50		73.84		
	Deduction for trap Door openings		-1	0.60	0.60		(0.36)		
							397.24		
						Say	398.00	246.18	97983.00
30	KSRB15-5.2 : Providing <u>rough cement plastering 15mm thick in single coat with cement mortar 1:6</u> , to brick masonry for base of dadoing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.31, Page No.115)								
	Ground Floor								
	Toilet in HM Room		1	7.20		2.10	15.12		
	Wash Area in HM Room		1	2.40		1.20	2.88		
	Boys Toilet		1	13.50		2.10	28.35		
	WC		1	5.00		2.10	10.50		
	Girls Toilet		1	13.50		2.10	28.35		
	WC		1	5.00		2.10	10.50		
	Wash Area		1	2.91		1.20	3.49		
			1	3.67		0.23	0.84		
	Drinking Water		1	4.13	0.12		0.47		
			1	3.23		0.60	1.94		
	Deductions	Coeff							
	D2	0.50	-5	0.75		2.10	-3.94		
							98.51		
						Say	99.00	201.65	19963.00
31	KSRB 14.10-2: <u>Flooring with 20 mm thick polished shahabad slabs using cement mortar 1:6</u> , 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS	Sqm							
	(PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 14.16, Page No.103)								

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Ground Floor								
	Flooring								
	HM Room		1	3.23	4.39		14.16		
			1	4.97	6.00		29.82		
	Office Room, Class Room-1, 2, 3		4	8.20	6.00		196.80		
	Below Staircase		1	2.40	6.23		14.95		
	Corridor		1	49.23	1.50		73.84		
	Ramp		1	5.75	1.50		8.63		
	Platform/ Stage		1	1.50	1.50		2.25		
			1	2.50	0.90		2.25		
	Entrance Step-1 & 2		2	2.50	0.30		1.50		
	Risers		2	2.50		0.15	0.75		
	At Door Gap		8	1.20	0.25		2.40		
	Window Cills								
	W		9	2.10	0.23		4.35		
	W1		10	1.50	0.23		3.45		
	V1		2	2.10	0.23		0.97		
	V2		1	2.10	0.23		0.48		
	V3		1	0.90	0.23		0.21		
	Staircase Window		1	2.70	0.23		0.62		
	Staircase								
	Risers		22	1.20		0.15	3.96		
	Tread		21	1.20	0.30		7.56		
	Landing		1	2.40	1.20		2.88		
	Skirting								
	HM Room, Office Room, Class Room 1,2,3		5	28.40		0.10	14.20		
	Below Staircase		1	14.86		0.10	1.49		
	Corridor		1	46.83		0.10	4.68		
	Dias		3	7.00		0.15	3.15		
							395.34		
						Say	396.00	1447.38	573164.00
	First Floor								
	Flooring								
	Library		1	12.40	6.00		74.40		
	Art/craft/culture, class room4, Science lab, computer room		4	8.20	6.00		196.80		
	Corridor		1	49.23	1.50		73.84		
	Window Cills						-		
	W		11	2.10	0.23		5.31		
	W1		11	1.50	0.23		3.80		
	Staircase Window		1	2.70	0.23		0.62		
	Staircase								
	Risers		22	1.20		0.15	3.96		
	Tread		21	1.20	0.30		7.56		
	Landing		1	2.40	1.20		2.88		
	At Door Gap		6	1.20	0.25		1.80		
	Skirting								
	Library		1	36.80		0.10	3.68		
	Art/craft/culture, class room4, Science lab, computer room		4	28.40		0.10	11.36		
	Corridor		1	46.83		0.10	4.68		
	Dias		4	7.00		0.15	4.20		
							394.89		
						Say	395.00	1447.38	571716.00
32	Providing half nosing for 20mm thick granite / shahbad slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification	Rmt							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 14.56, Page No.109)								
	Ground Floor								
	Skirting								
	Dias		3	7.00			21.00		
	Staircase Tread		21	1.20			25.20		
							46.20		
						Say	47.00	189.00	8883.00
	First Floor								
	Skirting								
	Dias		4	7.00			28.00		
	Staircase Tread		21	1.20			25.20		
							53.20		
						Say	54.00	189.00	10206.00

Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
KSRB 14.14-5: Providing <u>Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications - for Ceramic tiles 30cm x 30cm 6mm thick</u>	Sqm							
(PWD North Zone, Dharwad SR 2016-17 - Item No. - 14.36.2, Page No.106)								
Ground Floor								
Boys Toilet		1	3.98	2.77		11.02		
Girls Toilet		1	3.98	2.77		11.02		
HM Room Toilet		1	2.10	1.50		3.15		
Wash Area		1	0.90	1.50		1.35		
						26.55		
					Say	27.00	1268.88	34260.00
KSRB 14-17.2 : Providing <u>skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x45 cms 6mm thick with border of size 30 x 10 cms.</u>	Sqm							
(PWD North Zone, Dharwad SR 2016-17 - Item No. - 14.41.3, Page No.106)								
Ground Floor								
Boys Toilet		1	13.50		2.10	28.35		
WC		1	5.00		2.10	10.50		
Girls Toilet		1	13.50		2.10	28.35		
WC		1	5.00		2.10	10.50		
Wash Area		1	2.91		1.20	3.49		
HM Room Toilet		1	7.20		2.10	15.12		
Wash Area		1	2.40		1.20	2.88		
Drinking Water		1	4.13	0.12		0.47		
		1	3.23		0.60	1.94		
Deductions								
D2	0.5	-5	0.75		2.10	-3.94		
						97.67		
					Say	98.00	1336.08	130936.00
35 Providing and finishing <u>external walls in two coats over one coat of primer with antifungal paint</u> of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm							
(PWD North Zone, Dharwad SR 2016-17- Item No. - 15.104, Page No.125)								
Ground Floor						504.00	189.00	95256.00
Same as External Plastering								
First Floor						638.00	189.00	120582.00
Same as External Plastering								
Terrace						241.00	189.00	45549.00
Same as External Plastering								
36 Providing applying <u>two coats of wall putty to inside plastered walls and ceiling</u> using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (Internal Walls)	Sqm							
(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.106, Page No.126)								
Ground Floor								
Same as Internal & ceiling Plastering + staircase Internal wall						875.81	81.90	71729.00

	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	First Floor								
	Same as Internal & ceiling Plastering + staircase Internal wall						868.81	81.90	71155.00
7	KSRB 15-15.1 : Providing and applying painting in two coats with <u>plastic emulsion paint of approved brand</u> to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and <u>shade on ceiling and / or sloping roof</u> as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.51.3, Page No.117)								
	Ground Floor								
	Same as Internal Plastering						448.00	94.50	42336.00
	First Floor								
	Same as Internal Plastering						424.00	94.50	40068.00
38	KSRB 15-14.1 : Providing and applying <u>two coats with oil bound washable distemper</u> of approved brand and shade on wall surface including <u>priming coat with distemper primer</u> after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. KSRB 15-14.2 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications. (Ceiling Painting)	Sqm							
	(PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 15.49.1, 15.49.2 Page No.117)								
	Ground Floor								
	Same as Ceiling Plastering						381.00	5.25	2000.00
	First Floor								
	Same as Ceiling Plastering						398.00	5.25	2090.00
39	KSRB 15-18.1 : Applying red lead ready mix <u>priming coat over new steel or other metal surface</u> including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.73, Page No.121)								
	Ground Floor	Coeff							
	Grill Door	2.2	1	2.40		2.70	14.26		
	D1	2.2	8	1.20		2.10	44.35		
	D2	2.2	2	0.75		2.10	6.93		
							65.54		
						Say	66.00	43.05	2841.00
	First Floor	Coeff							
	D1	2.2	6	1.20		2.10	33.26		
						Say	34.00	43.05	1464.00
40	KSRB 15-18.2 : Providing and applying <u>enamel metal paint two coats</u> (excluding priming coat) <u>over new steel or other metal surface</u> brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.74, Page No.121)								
	Grill Door	2.2	1	2.40		2.70	14.26		
	D1	2.2	8	1.20		2.10	44.35		
	D2	2.2	2	0.75		2.10	6.93		
							65.54		
						Say	66.00	99.75	6584.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	First Floor	Coeff							
	D1	2.2	6	1.20		2.10	33.26		
						Say	34.00	99.75	3392.00
41	KSKB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KPS 7.12	Kg							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 7.09, Page No.32)								
	Ground Floor								
	Staircase Door		1	2.40		2.70	6.48		
	Consider 30kg/sqm						194.40		
						Say	195.00	99.75	19451.00
42	Providing and fixing M.S. Inspection door of size 60 cms x 60 cms, including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all lead and lifts etc., complete.	Each							
	KUWSDR, Bangalore SR 2015-16 Item No. 12								
	Terrace								
	Trap Door		1				1.00		
						Say	1.00	2205.00	2205.00
43	Door Frame : Entrance ; Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre-punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm	Rmt							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 38.49.1, Page No.313)								
	Ground Floor								
	D1		8	5.40			43.20		
	D2		2	4.95			9.90		
						Say	53.10	572.25	30386.00
	First Floor								
	D1		6	5.40			32.40		
						Say	32.40	572.25	18541.00

No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Door Shutters Entrance : Providing & fixing factory made <u>Galvanized steel door Shutters 32 mm thick</u> manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided <u>for fixing all hardware fixtures. The rate is including MS Doorlock, MS Aldrop, 2nos of oxidised MS Handles, 2nos. of 300mm long Tower Bolt,</u> transportation, loading, unloading, HOM etc.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 38.50.1, Page No.314)								
	Ground Floor								
	D1		8	1.20		2.10	20.16		
	D2		2	0.75		2.10	3.15		
							23.31		
						Say	23.40	3706.50	86732.00
	First Floor								
	D1		6	1.20		2.10	15.12		
						Say	15.20	3706.50	56339.00
45	<u>SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters</u> made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 9.83, Page No.57)								
	Ground Floor		4	0.75		2.10	6.30		
	D2					Say	6.30	2915.85	18370.00
46	<u>SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm</u> with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 9.84, Page No.57)								
	Ground Floor		4	0.75		2.10	6.30		
	D2					Say	6.30	491.40	3096.00

Sl. No.	Description of work	Unit	Nos.	Dimensions			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
47	KSRB 7.7 : Providing and fixing in position in cement concrete 1:2:4 steel glazed or Unglazed windows fully operable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size or 1mm thick MS Sheet and 11 nos of 10mm square MS horizontal guard bars, all steel sections should confirm to IS 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtured by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excludi	Sqm							
	(PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 7.07, Page No.32)								
	Ground Floor								
	W		9	1.80		1.20	19.44		
	W1		10	1.20		1.20	14.40		
	Staircase Window		1	2.40		1.20	2.88		
							36.72		
	First Floor					Say	36.80	4171.47	153513.00
	W		9	1.80	0.075	1.20	19.44		
	W1		10	1.20	0.075	1.20	14.40		
							33.84		
						Say	33.90	4171.47	141413.00
48	KSRB 7.7 : Providing and fixing in position in cement concrete 1:2:4 steel glazed ventilators side hung / top hung fully operable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size and 5 nos of 10mm square MS horizontal guard bars, all steel sections should confirm to IS 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labourted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. b	Sqm							
	(PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 7.07, Page No.32)								
	Ground Floor								
	V1		2	1.80		0.60	2.16		
	V2		1	1.80		0.60	1.08		
	V3		1	0.60		0.60	0.36		
							3.60		
						Say	3.60	4171.47	15017.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
49	Providing and fixing <u>M.S. Hand railing for Balcony / Staircase</u> etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections should be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm							
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 7.35, Page No.42)								
	Ground Floor								
	Ramp		2	5.40		0.90	9.72		
	Landing		1	1.50		0.90	1.35		
			1	0.60		0.90	0.54		
	Platform		1	0.90		0.90	0.81		
	Staircase		1	3.85		0.90	3.47		
			1	3.95		0.90	3.56		
							19.44		
						Say	19.50	2982.00	58149.00
50	<u>Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure</u> by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids, cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification								
	(PWD North Zone, Dharwad SR 2016-17 - Item No. - 10.5.1, Page No.67)								
	Terrace		1	49.22	7.96		391.79		
			1	114.38		1.00	114.38		
							506.17		
						Say	507.00	603.75	306101.00
51	Providing and laying in position <u>Screed concrete Using 12mm & Downsize graded granite metal coarse aggregates using OPC Cement @320kg/Cum</u> with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, with 1 kg waterproofing compound per bag cement laid to an <u>average thickness of 75mm</u> and top layer finished with 18mm thick plaster in CM 1:3 with waterproofing compound of 1kg/bag of cement finishing to required slope, including cost of all materials, labour, HOM of machinery, curing, complete as per Engineer in Charge of Work.	Sqm							
	Approved Rate								
	Terrace		1	40.82	7.96		324.93		
						Say	325.00	743.90	241768.00
52	Providing and fixing on wall surface <u>2.5kg/sq.cm P.V.C rain down water pipes (Spouts) 110mm outer dia</u> approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications.	Rmt							
	(Arrived Rate)		18			1.00	18		
						Say	18	493.50	8883.00

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

Water Supply and Plumbing Works

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
1	Providing and fixing <u>Chlorinated Poly Vinyl Chloride (CPVC) pipes</u> conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (<u>external work</u>). - <u>25mm nominal OD pipes</u>	M							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.87.3, Page No.97)		1	80.00			80.00		
						Say	80.00	181.65	14532.00
2	Providing and fixing <u>Chlorinated Poly Vinyl Chloride (CPVC) pipes</u> conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (<u>Concealed work including cutting chases and good the walls etc.</u>) - <u>20mm nominal OD pipes</u>	M							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.86.2, Page No.96)		1	44.00			44.00		
						Say	44.00	246.75	10857.00
3	KSRB13-6.4-3 : Providing and fixing in position <u>brass ball valve high or low pressure with plastic float of approved quality 25mm</u> nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.42, Page No.92)		2				2		
	For OHT & Sump Tank					Say	2	538.65	1077.00
4	KSRB13-6.3-3 : Providing and fixing in position <u>brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal</u> bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.34, Page No.91)		2				2		
						Say	2	471.45	943.00
5	KSRB13-6.2-1 : Providing and fixing in position <u>brass stop cock of approved quality 15mm</u> nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.26, Page No.91)		9				9		
						Say	9	247.80	2230.00
6	KSRB13-6.1-1 : Providing and fixing in position <u>brass bib cock of approved quality 15mm nominal</u> bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.23, Page No.91)		16				16		
						Say	16	199.80	3196.80

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
7	KSRB 11-11.2 : Providing and fixing <u>white vitreous china clay, flat back wash basin size 630x450mm</u> with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Unit							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.24, Page No.81)		3				3		
						Say	3	179.55	539.00
8	Providing <u>20mm thick grey granite</u> as Urinals separator	Sqm							
	(PWD North Zone, Dharwad SR 2016-17-Pg.No. VI - Code No.-0518 (Sl. No.163)		5	0.90		1.50	6.75		
						Say	6.80	934.32	6353.00
9	Fixing of 20mm thick grey granite as urinal separator	Nos							
	Market Rate		5				5		
						Say	5	262.50	1313.00
10	Providing and fixing white vitreous china clay urinals with <u>flat back</u> of approved make fixed to wooden plugs including bends, painting white to exposed pipes etc., complete as per directions.(rate includes cost of all materials and lead).A grade.	Each							
	(PWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 12.109, Page No.88)		4				4		
						Say	4	892.50	3570.00
11	Providing white <u>vitreous china clay Indian pattern squatting urinals</u> with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in Position with M-15 as directed of size <u>50.8 cms X 38 cms X 10.16 cms</u> - A Grade (Rate includes cost of all materials and conveyance to work spot).	No.							
	(PWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 12.110, Page No.88)		3				3		
						Say	3	997.50	2993.00
12	KSRB 11-2 : Providing and fixing white vitreous china clay, <u>water closet Orissa pattern of size 580 x 440mm</u> with integral type footrests, <u>100mm S or P trap, 10 litre low level, P.V.C flushing cistern</u> (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Pan							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.02, Page No.77)		2				2		
						Say	2	4435.20	8870.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
13	KSRB 11-5 : Providing and fixing white vitreous china clay, <u>water closet European type (Pedestal type, P-trap)</u> with black solid plastic seat and lid, C.P brass hinges, rubber buffers. <u>10 litre low level, P.V.C flushing cistern</u> (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.05, Page No.77)								
	HM Room		1				1		
						Say	1	5203.80	5204.00
14	Supply and fixing of approved quality <u>Health Faucet</u> as per the direction of Engineer -in-charge of the work	Nos.							
	Data Rate								
	HM Room		1				1		
						Say	1	1522.50	1523.00
15	KSRB 11-15.3 : Providing and fixing <u>453x357mm dia rectangular shape mirror with plastic moulded frame</u> of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.	Unit							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.41, Page No.82)		3				3		
						Say	3	1192.80	3578.00
16	KSRB 11-17.2 : Providing and fixing <u>C.P. brass towel rail 600 mm length, 20mm dia with C.P brackets</u> , fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications.	Unit							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.46, Page No.83)								
	HM Room		1				1		
						Say	1	707.70	708.00
17	KSRB 11-16 : Providing and fixing <u>600x120mm glass shelf</u> supported on alluminium angle frame with C.P brass brackets, guard rail fixed to wooden cleats with C.P. brass screws and washers including cost of materials, labour complete as per specifications.	Unit							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.44, Page No.83)								
	HM Room		1				1		
						Say	1	1136.10	1136.00
18	Providing and fixing <u>CI Nahani trap</u> of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - <u>12.5 Cms. x 7.5 Cms.</u>	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.113.2, Page No.88)		14				14		
						Say	14	299.25	4190.00
19	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.111, Page No.88)	Each							
			14				14		
						Say	14	157.50	2205.00

Sl. No.	Description of work	Unit	No.	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
20	Providing stoneware <u>gully trap</u> of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead).- 10cms x 10cms	Each							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.112.1, Page No.88)		2				2		
						Say	2	199.50	399.00
21	KSRB13-6.6-2 : Providing and fixing unplasticised <u>PVC connection pipe with brass union 15mm nominal bore 450mm length</u> of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS	Set							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.47, Page No.92)		3				3		
						Say	3	277.20	832.00
22	KSRB 13-11.1 : Providing and placing on terrace, <u>polyethylene water storage tanks with manhole lid</u> and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(<u>For 1000 litre capacity</u>) Specification No.KBS 13.22	Nos.							
	(PWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 13.78, Page No.94)		1				1		
						Say	1	7,169.40	7169.00
23	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia	M							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 12.116.1, Page No.88)		1	30.00			30.00		
						Say	30.00	455.70	13671.00
24	KSRB13-8.7 : Providing and fixing to wall, ceiling and floor <u>Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 75mm outside diameter</u> with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 for Internal watersupply connenction	M							
	(PWD North Zone, Dharwad SR 2016-17- Item No. - 13.70.3, Page No.93)		1	20.00			20.00		
						Say	20.00	342.30	6846.00

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

Electrification Work

Sl.No.	Electrical SR 2014 - 15, P.No. & Item Nos.	Unit	Qty.,	Rate	Amount
1	Concealed Conduit System Supplying heavy gauge PVC conduit pipemm diamm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary (Elec SR - 2014-15 - Item No. - 1.2)(Page No. - 2)				
	P.No.2, I.No.1.2 (1.2.2) (25mm dia 2mm thick)	Mtr.	600	59.85	35910.00
2	Supplying heavy gauge PVC Conduit Pipediamm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (Elec SR - 2014-15 - Item No. - 1.3)(Page No. - 2)				
	P.No.2, I.No.1.3 (1.3.2) (25mm dia 2mm thick)(Groove)	Mtr.	300	60.90	18270.00
3	Supplying and fixing PVC/metal conduit Deep junction box (Elec SR - 2014-15 - Item No. - 1.5)(Page No. - 2)				
	P.No.2 & 3, I.No.1.5(1.5.2) (25mm dia 2mm thick)	Mtr.	45	53.55	2410.00
4	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)				
	P.No.3, I.No.1.6 (1.6.3) (10"x7"x3")	Each	15	91.35	1370.00
5	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)				
	P.No.3, I.No.1.6 (1.6.4) (8"x6"x3")	Each	22	76.65	1686.00
6	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)				
	P.No.3, I.No.1.6 (1.6.5) (4"x4"x3")	Each	20	71.40	1428.00
7	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)				
	P.No.3, I.No.1.12 (Fan Box)	No.	21	96.60	2029.00
8	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A (Elec SR - 2014-15 - Item No. - 2.1)(Page No. - 5)				
	P.No.5, I.No.2.1 (2.1.1) (Point Wiring)	Point	22	182.70	4019.00
9	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A. Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch (Elec SR - 2014-15 - Item No. - 2.1.2)(Page No. - 5)				
	P.No.5, I.No.2.1 (2.1.2) (Point Wiring)	Point	53	257.25	13634.00
	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A. Long point above 6Mtr upto 10Mtr from tapping point to out let via switch (Elec SR - 2014-15 - Item No. - 2.1.3)(Page No. - 5)				
	P.No.5, I.No.2.1 (2.1.3) (Point Wiring)	Point	25	381.15	9529.00

Sl.No.	Electrical SR 2014 - 15, P.No. & Item Nos.	Unit	Qty.	Rate	Amount
11	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6)				
	P.No.6, I.No.2.5 (2.5.2) (1.5 Sq.mm)	Mtr.	1000	19.53	19530.00
12	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6)				
	P.No.6, I.No.2.5 (2.5.3) (2.5 Sq.mm)	Mtr.	2000	30.66	61320.00
13	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6)				
	P.No.6, I.No.2.5 (2.5.4) (4 Sq.mm)	Mtr.	250	44.21	11051.00
14	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6)				
	P.No.6, I.No.2.5 (2.5.5) (6 Sq.mm)	Mtr.	50	66.99	3350.00
15	Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 (Elec SR - 2014-15 - Item No. - 3.1)(Page No. - 15)				
	P.No.15, I.No.3.1 (3.1.2) (6A 'U' Socket)	Each	35	157.50	5513.00
16	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A (Elec SR - 2014-15 - Item No. - 3.15.A)(Page No. - 18)				
	P.No.18, I.No.3.15 (3.15.A.1) (6A Switches)	Each	35	36.75	1286.00
17	Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 (Elec SR - 2014-15 - Item No. - 3.2)(Page No. - 15)				
	P.No.15, I.No.3.2 (2Way Switches)	Each	4	179.55	718.00
18	Supply and fixing of Bakelite D.P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 GROUP A (Elec SR - 2014-15 - Item No. - 3.3.A)(Page No. - 15)				
	P.No.15, I.No.3.3 (3.3.A.1) (32 A Flush type DP's)	Each	9	196.35	1767.00
19	Supply and fixing of Bakelite D.P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 GROUP A (Elec SR - 2014-15 - Item No. - 3.3.A)(Page No. - 15)				
	P.No.15, I.No.3.3 (3.3.A.3) (16A 'U' Socket)	Each	9	103.95	936.00
20	Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 (Elec SR - 2014-15 - Item No. - 3.2)(Page No. - 15)				
	P.No.15, I.No.3.3 (3.3.A.5) (Fan Regulator)	Each	21	221.55	4653.00
21	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A (Elec SR - 2014-15 - Item No. - 3.15.A)(Page No. - 18)				
	P.No.18, I.No.3.15 (3.15.A.7) (Bell Push)	No.	1	50.40	50.00
22	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws. (Elec SR - 2014-15 - Item No. - 16.1)(Page No. - 104)				
	P.No.104, I.No.16.1 (Buzzer)	Each	1	152.25	152.00
23	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. (Elec SR - 2014-15 - Item No. - 4.2)(Page No. - 20)				
	P.No.20, I.No.4.2 (PBBC S/S Holders)	Each	50	92.40	4620.00
24	Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A (Elec SR 2014-15, tem No. 3.7 A) (Page No. 20)				
	P.No.16 & 17, I.No.3.7 (3.7.B.23) (TV/Tele.Socket)	Each	2	70.35	141.00

Sl.No.	Electrical SR 2014 - 15, P.No. & Item Nos.	Unit	Qty.,	Rate	Amount
25	Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A(Elec SR 2014-15, tem No. 3.7 A) (Page No. 20)				
	P.No.16 & 17, I.No.3.7 (3.7.B.24) (RJ45/IO,Outlet)	Each	18	175.35	3156.00
26	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. (Elec SR - 2014-15 - Item No. - 3.9)(Page No. - 17)				
	P.No.17, I.No.3.9 (4mm Plastic sheet)	Sq.Cm	16000	0.26	4200.00
27	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. (Elec SR - 2014-15 - Item No. - 4.4)(Page No. - 20)				
	P.No.20, I.No.4.4 (Bulk Head Fitting)	Each	6	999.60	5998.00
28	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic. (Elec SR - 2014-15 - Item No. - 4.7)(Page No. - 20)				
	P.No.20, I.No.4.7 (4.7.1) (FTL 1 x 4' - 28W)	Each	50	1039.50	51975.00
29	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) (Elec SR - 2014-15 - Item No. - 9.3.1)(Page No. - 78)				
	P.No.78, I.No.9.3 (9.3.1.1) (Ceiling Fan)	Each	21	2494.80	52391.00
30	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. (Elec SR - 2014-15 - Item No. - 9.2)(Page No. - 78)				
	P.No.78, I.No.9.2 (9.2.1) (Exhaust Fan)	Each	3	3836.70	11510.00
31	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (Elec SR - 2014-15 - Item No. - 17.7)(Page No. - 108)				
	P.No.108, I.No.17.7 (17.7.1) (Fixing of FTL)	Each	50	102.90	5145.00
32	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (Elec SR - 2014-15 - Item No. - 17.8)(Page No. - 110)				
	P.No.109, I.No.17.8 (Fixing of Ceiling Fan)	Each	21	145.95	3065.00
33	Fixing one exhaust fan after making a suitable niche in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. (Elec SR - 2014-15 - Item No. - 17.11)(Page No. - 110)				
	P.No.109, I.No.17.11 (Fixing of Exhaust Fan)	Each	3	714.00	2142.00
34	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door (Elec SR - 2014-15 - Item No. - 6.17.III)(Page No. - 47)				
	P.No.47, I.No.6.17 III (6.17.III.8) (6Way TP&N DB's DD)	Each	2	3010.35	6021.00
35	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross 3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Elec SR - 2014-15 - Item No. - 6.16)(Page No. - 47)				
	P.No.47, I.No.6.16 (6.16.1) (5 to 32 A SP MCB)	Each	13	438.90	5706.00
36	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross 3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Elec SR - 2014-15 - Item No. - 6.16)(Page No. - 47)				
	P.No.47, I.No.6.16 (6.16.3) (5 to 32 A DPMCB)	Each	4	891.45	3566.00
37	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. (Elec SR - 2014-15 - Item No. - 6.18)(Page No. - 47)				
	P.No.47, I.No.6.18 (6.18.3) (32 to 40 A ELMCB)	Each	1	3082.80	3083.00

No.	Electrical SR 2014 - 15, P.No. & Item Nos.	Unit	Qty.	Rate	Amount
38	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Elec SR - 2014-15 - Item No. - 7.1)(Page No. - 55)				
	P.No.55, I.No.7.1 (Earthing)	No.	4	2863.35	11453.00
39	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire (Elec SR - 2014-15 - Item No. - 7.22.A)(Page No. - 64)				
	P.No.64, I.No.7.22 (7.22.A.3) (GI Wire 8SWG)	Mtr.	40	20.48	819.00
40	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (Elec SR - 2014-15 - Item No. - 6.4)(Page No. - 49)				
	P.No.49, I.No.6.40 (6.40.2) (MS Sheet 16 SWG)	Sq.Cm	80000	0.35	27720.00
41	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply. (Elec SR - 2014-15 - Item No. - 6.11)(Page No. - 45)				
	P.No.45, I.No.6.11 (6.11.2) (Change Over Switch)	Each	1	6747.30	6747.00
42	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE (Elec SR - 2014-15 - Item No. - 6.13.A)(Page No. - 46)				
	P.No.46, I.No.6.13 (6.13.A.1) (MCCB)	Each	1	4246.20	4246.00
43	Supplying, fixing and wiring 3 Phase Digital Ammeter /Voltmeter. (Elec SR - 2014-15 - Item No. - 6.27)(Page No. - 48)				
	P.No.48, I.No.6.27 (Digital Ameter & Voltmeter)	Each	1	1285.20	1285.00
44	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. (Elec SR - 2014-15 - Item No. - 6.36)(Page No. - 48)				
	P.No.48, I.No.6.36 (LED Indicating Lamps)	Each	3	464.10	1392.00
45	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Elec SR - 2014-15 - Item No. - 6.38)(Page No. - 49)				
	P.No.49, I.No.6.38 (6.38.1) (Bus Bar)	Mtr.	1	2241.75	2242.00
46	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. (Elec SR - 2014-15 - Item No. - 6.32)(Page No. - 48)				
	P.No.48, I.No.6.32 (CT Coils)	Each	2	507.15	1014.00
47	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (Elec SR - 2014-15 - Item No. - 6.39)(Page No. - 49)				
	P.No.49, I.No.6.39 (6.39.2) (MS Frame)	Mtr.	15	354.90	5324.00
48	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. (Elec SR - 2014-15 - Item No. - 6.31)(Page No. - 48)				
	P.No.48, I.No.6.31 (Digital KWH Meter)	Each	1	8403.15	8403.00
49	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. (Elec SR - 2014-15 - Item No. - 7.4)(Page No. - 55)				
	P.No.55 & 56, I.No.7.4 (7.4.7) (UG Cable)	Mtr.	100	278.25	27825.00

S.No.	Electrical SR 2014 - 15, P.No. & Item Nos.	Unit	Qty.,	Rate	Amount
50	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (Elec SR - 2014-15 - Item No. - 7.21)(Page No. - 64)				
	P.No.64, I.No.7.21 (7.21.9) (Lugs)	Each	3	65.52	197.00
51	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (Elec SR - 2014-15 - Item No. - 7.14)(Page No. - 62)				
	P.No.62, I.No.7.14 (7.14.5) (Gland)	Each	3	277.20	832.00
52	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. (Elec SR - 2014-15 - Item No. - 7.8.A)(Page No. - 61)				
	P.No.61, I.No.7.8 (7.8.A.2) (Labour for Cable Laying)	Mtr.	100	17.01	1701.00
53	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (Elec SR - 2014-15 - Item No. - 7.9)(Page No. -)				
	P.No.61, I.No.7.9 (7.9.2) (Earth Excavation)	Mtr.	80	111.30	8904.00
54	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. (Elec SR - 2014-15 - Item No. - 7.13)(Page No. - 62)				
	P.No.62, I.No.7.13 (7.13.5) (L.T. Pot Head)	Each	1	668.85	669.00
55	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (Elec SR - 2014-15 - Item No. - 6.7)(Page No. - 44)				
	P.No.44 & 45, I.No.6.7 (6.7.3) (Fuse Cutouts)	Each	3	245.70	737.00
56	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. (Elec SR - 2014-15 - Item No. - 7.12)(Page No. - 62)				
	P.No.62, I.No.7.12 (7.12.2) (GI Pipe)	Mtr.	5	410.55	2053.00
57	Supplying and drawing UTP-CAT 6E LAN cable. (Elec SR - 2014-15 - Item No. - 11.1)(Page No. - 85)				
	P.No.85, I.No.11.1 (Lan Cable)	Mtr.	265	24.15	6400.00
					483293.00

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

SUMP TANK

Sl. No.	Description of work	Unit	No.	L	B	D/H	Qty.	Rate	Amount
1	KSRB 2-2.1 : <u>Earthwork excavation by manual means</u> for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>Ordinary soil</u> not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KRS 2.1(a) / 2.3.5	Cum							
	(PWP&JWTD North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.03, Page No.5)		1	4.00	3.30	0.90	11.88		
						Say	12.00	313.95	3768.00
2	KSRB 2-2.2 : <u>Earthwork excavation by manual means</u> for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>hard soil not exceeding 1.5 m. in depth</u> including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KRS 2.1(a) / 2.3.5	Cum							
	(PWP&JWTD North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.04, Page No.5)								
			1	4.00	3.30	0.60	7.92		
						Say	8.00	471.45	3772.00
3	KSRB 4-1.3 : Providing and laying in position <u>plain cement concrete of mix 1:4:8</u> with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HDM of machinery, curing complete as per specifications. Specification No. KRS 4.1, 4.2	Cum							
	(PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.03, Page No.12)		1	3.30	2.80	0.15	1.39		
						Say	2.00	5545.89	11092.00
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of <u>mix 1:2:4</u> with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundations, plinth and cills, including cost of all materials, labour, HDM of machinery, curing complete as per specifications. Specification No. KRS 4.1, 4.2 (PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.06, Page No.12)	Cum							
	(PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.06, Page No.12)		1	3.30	2.80	0.10	0.92		
						Say	1.00	5917.17	5918.00
5	KSRB 2.3 : <u>Filling available excavated earth (excluding rock)</u> in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KRS 2.9	Cum							
	(PWP&JWTD North East, Kalaburgi SR 2017-18 - Item No. - 2.10, Page No.6)								
	EWE in ordinary soil, Hard soil & Soft Rock						20.00		
	Deduct For PCC for Plinth						-2.00		
	Deduct for tank		-1	2.50	2.00	1.65	-8.25		
							9.75		
						Say	10.00	211.05	2111.00
6	KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqmm with cement mortar 1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KRS 6.2 (PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 6.03, Page No.27)	Cum							
	(PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 6.03, Page No.27)								
	Long Wall		2	2.96	0.23	1.80	2.45		
	Short Wall		2	2.00	0.23	1.80	1.66		
							4.11		
						Say	5.00	6355.23	31777.00
7	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended B-ers, landings, balconies and likes, <u>thickness upto 200 mm</u> including cost of all materials, labour complete as per specifications for heights more than 3.50m from ground level. Specification No. KRS 4-6.2.0 to 5 mds	Sqm							
	(PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.29.2, Page No.13)								
	Top slab		1	2.50	2.00		5.00		
	Bottom projection		2	3.16	0.10		0.63		

Description of work	Unit	No.	L	B	D/H	Qty.	Rate	Amount
		2	2.00	0.10		0.40		
						6.03		
					Say	5.00	322.35	1612.00
KSRB 4.6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2	Sqm							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.36, Page No.16) -								
Sides of roof slab Around		1	3.16		0.15	0.47		
		1	2.66		0.15	0.40		
						0.87		
					Say	1.00	758.10	759.00
KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reconfirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pillars, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KRS 4.1, 4.6	Cum							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.10, Page No.13) -								
Slab		1	3.16	2.66	0.15	1.26		
Deduction for cover		-1	0.60	0.60	0.15	-0.05		
						1.21		
					Say	1.30	6316.17	8212.00
10 KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KRS 4.6.3 : TMT bars Fe 500	Ton							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.46.2, Page No.17)					1.30	80.00	104.00	
Top Slab							104.00	
Qty. Vide item No (6)							0.10	
					Say	0.10	73821.30	7678.00
11 KSRB15-3.9 Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (PWD&HWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 15.17, Page No.114)	Sqm							
(PWD&HWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 15.17, Page No.114)								
Inside		1	9.00			1.80	16.20	
Outside		1	11.64			1.80	20.95	
							37.15	
					Say	38.00	257.73	9794.00
12 KSRB15-4.4 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. (PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 15.26, Page No.114)	Sqm							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 15.26, Page No.114)							38.00	8.40
Qty same as 18mm thick plastering								320.00
13 Supplying and fixing M.S. sump tank cover of size 0.60 x 0.60cms made out of M.S. angle of size 25x25x6mm for frame and 14 G.M.S. sheet welded and providing locking arrangements and fixing the same in Cement concrete with necessary hinges, painting etc., complete.	Nos							
(PWD North East Zone, Kalaburgi SR 2017-18, Page No.XXXIX)						1.00	3429.30	3430.00
							Total	90,243.00

Assistant Executive Engineer
PRE Sub Division Hukkeri

Executive Engineer
PRE Division Chikkodi

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

SOAK PIT

Sl No.	Description of work	Unit	Nos.	L	B	D	Q	Rate	Amount
1	KSRB 2-2.2 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>Ordinary soil</u> not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
	(PWP&IWT North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.03, Page No.5)		1	2.54		0.90	2.29		
						Say	2.30	313.95	722.00
2	KSRB 2-2.2 : <u>Earthwork excavation by manual means</u> for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>hard soil</u> not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
	(PWP&IWT North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.04, Page No.5)		1	2.54		0.60	1.53		
						Say	1.60	471.45	754.00
3	KSRB 4-1.3 : Providing and laying in position <u>plain cement concrete of mix 1:4:8</u> with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, <u>in foundation</u> , including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum							
	(PWP&IWT North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.03, Page No.12)		1	3.93	0.55	0.15	0.32		
						Say	0.40	5545.89	2,218.00
4	KSRB 5.2-1 : Providing and constructing granite / trap / basalt size stone masonry in foundation with mud mortar, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12	Cum							
	(PWP North East Zone, Kalaburgi SR 2017-18 - Item No. - 5.04, Page No.23)								
	1st course		1	4.24	0.45	0.80	1.53		
	2nd Course		1	3.77	0.30	0.80	0.90		
						Say	2.43		
						Say	2.50	3842.16	9,605.00
5	KSRB 4-1.5 : Providing and laying in position <u>plain cement concrete of mix 1:2:4 (M15)</u> with OPC cement @ 180kgs, with 20mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, <u>in foundation</u> , including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS	Cum							
	(PWP&IWT North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.03, Page No.12)								
	2nd Course		1	3.77	0.30	0.10	0.38		
						Say	0.40	5789.70	2,316.00

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

SEPTIC TANK

SPECIFICATIONS	UNIT	Nos	L	B	D	Qty	Rate	AMOUNT in Rs.
KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>Ordinary soil</u> not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
(PWP&IWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.03, Page No.5)		1	5.66	3.06	0.60	10.39		
Septic tank					Say	11.00	313.95	3,454.00
KSRB 2-2.2 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in <u>hard soil not exceeding 1.5 m. in depth</u> including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum							
(PWP&IWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 2.04, Page No.5)		1	5.66	3.06	0.90	15.59		
					Say	16.00	471.45	7,544.00
3 KSRB 2-2.4 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in <u>soft rock without blasting not exceeding 1.50Mtrs</u> in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications. specification. No. KBS 2.1C/2.9.4/2.18/2.19	Cum							
(PWP&IWD North East, Kalaburgi SR 2017-18 - Item No. - 2.06, Page No.5)		1	5.66	3.06	0.10	1.73		
					Say	2.00	720.30	1,441.00
4 KSRB 4-1.3 : Providing and laying in position <u>plain cement concrete of mix 1:4:8</u> with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum							
(PWP&IWD North East, Kalaburgi SR 2017-18 - Item No. - 4.03, Page No.12)		1	4.66	2.06	0.15	1.44		
					Say	2.00	5545.89	11,092.00
5 KSRB 4-1.6 : Providing and laying in position <u>plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size</u> graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum							
(PWD North East, Kalaburgi SR 2017-18 - Item No. - 4.06, Page No.12)		1	4.00	1.40	0.10	0.56		
					Say	1.00	5917.17	5,918.00
6 KSRB 2.3 : <u>Filling available excavated earth (excluding rock)</u> in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering, with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9	Cum							
(PWP&IWD North East, Kalaburgi SR 2017-18 - Item No. - 2.10, Page No.6)							29.00	
EWE in ordinary soil, Hard soil & Soft Rock							-2.00	
Deduct For PCC for Plinth		-1	4.46	1.86	1.35	-11.20		
Deduct for tank							15.80	
					Say	16.00	211.05	3,377.00

SPECIFICATIONS		UNIT	Nos	L	B	D	Qty	Rate	AMOUNT in Rs.
B 4-6.2 : Providing and removing centering, shuttering, trestling, propping etc., and removal of form work for flat cast such as roofs, landings, balconies and likes, knee up to 200 mm including cost of all materials, labour complete as per specifications up to 3.50m from Ground level. Specification No. KBS 4.6.2		Sqm							
WP&I/WTN North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.18, Page No.15)									
Top slab			1	4.46	1.86		8.30		
Deduct for Opening			-2	0.60	0.60		-0.72		
							7.58		
						Say	8.00	322.35	2,579.00
SRB 4-6.9 : Providing and removing centering, shuttering, trestling, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2		Sqm							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.36, Page No.16) -									
Sides of roof slab Around			2	4.46		0.15	1.34		
			2	1.86		0.15	0.56		
							1.90		
						Say	2.00	758.10	1,517.00
KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reconfirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6		Cum							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.10, Page No.13)									
Top slab			1	4.46	1.86	0.15	1.24		
Deduct for Opening			-2	0.60	0.60	0.15	-0.11		
							1.14		
						Say	1.20	6316.17	7,580.00
10 KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per		Ton							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 4.46.2, Page No.17)						1.20	80.00	96.00	
Top Slab								0.10	
						Say	0.10	73821.30	7,087.00
11 KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non modular bricks of standard size of class designation 3.5 Newton per sqmm with cement mortar 1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 6.03, Page No.27)		Cum							
(PWD North East Zone, Kalaburgi SR 2017-18 - Item No. - 6.03, Page No.27)									
Long Wall			2	4.46	0.23	1.80	3.69		
Short Wall			2	1.40	0.23	1.80	1.16		
						Say	5.00	6355.23	31,777.00
12 KSRB 6-7.3 : Construction of partition wall 11.2 cms thick with non-modular ground moulded burnt bricks of class designation 3.5 Newton per sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2		Sqm							
(PWD North East Zone Kalaburgi SR 2017-18 - Item No. - 6.25, Page No.28)									
Long Wall			2	1.40		1.80	5.04		
						Say	6.00	832.80	4,997.00

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

Detailed Estimation For Sinking of Borewell & Installation of Pumpset & Electrification

Description of work	Unit	No.	Dimensions			Qty	Rate in Rs.	Amount in Rs.
			L	B	H			
Grading of road surface for pipeline trenches and disposing of the excavated soil as directed including barricading, danger lighting etc. in the following specification.	Cum	1	150.00	0.60	0.15	13.50	1161.30	15,679.00
Archwork excavation for pipeline trench including depositing on bank upto lead of 50mts. Including shoring and strutting, danger lighting and using light rails and boxing rocks at every 100 mtrs. Wherever necessary as directed in the following strata by Manual means	Cum	1	150.00	0.60	0.90	81.00		
(P.No.1, L.No.1.1 & 1.2.2 of PRE SR 2012-13) (Water Supply)						81.00	279.10	22,761.00
in Hard soil								
Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, consolidation in layers of 15cm thick including disposing of the surplus earth with a lead of 200mts.	Cum	1	150.00	0.60	0.90	81.00	108.15	8,760.00
(P.No.3, L.No.1.6 of PRE SR 2012-13) (Water Supply)								
Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including cost lowering into trenches, laying to line level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete.	Mtr	1	150.00			150.00	217.25	32,603.00
PVC pipes of 6kg/cm ² , a) 75mm								
(P.No.14 & 15, L.No.3.4.2 of PRE SR 2012-13) (Water Supply)								
4 Giving hydraulic test for I.C.I./R.C.C./P.V.C./H.D.P.E or A.C. pipelines to the pressure equal 2 times the working pressure including cost of supply of water	Mtr	1	150.00			150.00	6.09	914.00
Upto 80mm								
(P.No.16, L.No.3.7.1 of PRE SR 2012-13) (Water Supply)								
4 Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, H.O.M of Machinery, curing complete as per specifications.	Mtr	1	150.00	0.60	0.15	13.50	5,644.80	76,205.00
SINKING OF BORE WELL								
5 Sinking of borewell of 165 mm dia clear using fast rig in all strata including over burden upto 30 M fixing of casing pipes, collars and cap with necessary cutting & threading including transportation of rig and supporting vehicle crew charges and cost of consumables, etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes) for piped water supply schemes Upto 50 Mtrs	Rmt							
(P.No.46, L.No.9.1.1 to 9.1.4 of PRE SR 2012-13) (Water Supply)								
0 To 50 mts	Rmt	1	50.00			50.00	364.35	18,218.00
50 to 100 mts	Rmt	1	50.00			50.00	464.10	23,205.00
100 to 150 mts	Rmt	1	50.00			50.00	478.80	23,940.00
150 to 200 mts	Rmt	1	40.00			40.00	562.80	22,512.00
6 BORE WELL WORK Geophysical investigation of site for sinking Borewell for supplying drinking water to Habitation either through the Handpump, MWS or PWSS by vertical sounding by adopting veener sounding by adopting veener or schlumbergers's including reconnaissance of survey of Geological formation, geophysical investigation of existing ground water in the vicinity quality, quantity and acceptability of the user including the location of site, recommended department of casing pipe required to seal the top and consolidated formation including an extra depth of 1.00Mtr in consolidated formation including an extra depth of drilling required to cover full depth of occupier proposed to trap probable yield and other information required including transportation of instrument and accessories to work site engaging technical personnel labour required etc complete as directed by Engineer in charge	Each	2				2.00	2,205.00	4,410.00
(P.No.47 & 48, L.No.9.4 of PRE SR 2012-13) (Water Supply)								
7 Yield Testing of Borewell at final depth with a minimum of 10 hrs continuously with the help of pump testing unit including the cost of transportation charges, and cost of consumables	Each	1				1.00	10,342.50	10,343.00
(P.No.49, L.No.9.9 of PRE SR 2012-13) (Water Supply)								

Description of work	Unit	No.	Dimensions			Qty	Rate in Rs.	Amount in Rs.
			L	B	D			
Supply of ISI Mark 175 mm nominal Bore. Plain end steel casing Pipe - grade of Steel Fe410 of wall thickness 5.4mm thick conforming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. both the end threaded confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI Marking. We (P.No.iii I.No.84 of PRE SR 2012-13) (Water Supply)	Rmt	1	15.00			15.00	1,522.50	22,838.00
Supply of 175mm M.S.Cap (P.No.iii I.No.85 of PRE SR 2012-13) (Water Supply)	Each	1				1.00	367.50	368.00
PUMPING MACHANARY								
Supplying & delivering at site submersible three phase pumset, 3HP / 2.2kW, ATALANTA, SUGUNA, CRI, KIRLOSKAR & Other Equivalent pumps 3HP / 2.2kW (P.No.XXXIX, I.No.1 of PWD SR 2017-18)	Each	1				1.00	43,318.80	43,319.00
KSRB13-6.3-1 :Providing and fixing in position brass gate valve with C.I wheel of approved quality including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. do for 40 mm dia (PWD North Zone, Dharwad SR 2016-17 - Item No. - 13.37, Page No.88,89)	Each	1				1.00	1,249.50	1,250.00
Supply and delivery at site 50mm(2") dia heavy duty unplasticized PVC Column pipes with heavy duty collers, rubber profile ring, vibration control profile ring, freezing and turbulence free leak proof EPDM ring with ISI mark with its latest amendments	Mtr	1	200.00			200.00	522.90	104,580.00
KSRB 13-7.2-1: Providing and fixing in position 25 mm nominal bore non return valve vericle type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no KBS 13.2.10/13.13 do for 40 mm dia (PWD North Zone, Dharwad SR 2016-17 - Item No. - 13.62, Page No.90)	No	1				1.00	1,233.75	1,234.00
Providing NP/CP based unions conforming to ISI specifications and fixing them in position as per directions including cost materials, fixtures and conveyance to work etc complete. do for 40 mm dia (PWD North Zone, Dharwad SR 2016-17 - Item No. - 13.81.3, Page No.95)	Each	1				1.00	231.00	231.00
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible with low resistance conductor conforming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A 3C X 4.0Sq.mm (P.No.12, I.No.2.10.3 of PRE Electrical SR 2014-15)	Rmt	1	350.00			350.00	113.40	39,690.00
Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 40/440 volts 3 phase and wired after fixing to the existing wooden board for motor. Upto 12.5 HP (P.No.44, I.No.6.2.1 of PRE Electrical SR 2014-15)	Each	1				1.00	6,912.15	6,912.00
Suppling and fixing single phase preventer using necessary wires over an existing pannel board suitable for motor up to 20 HP capacities. (P.No.44, I.No.6.3 of PRE Electrical SR 2014-15)	Each	1				1.00	806.40	806.00
Fixing a shunt capacitar of KVAR capacity with necessary clamps, bolts and nuts more existing wooden or metal board including banking of more than 1 capacitor 6 to 10 KVAR (P.No.44, I.No.6.4.2 of PRE Electrical SR 2014-15)	Each	1				1.00	207.90	208.00
Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws. 20" x 20" x 2.5" (P.No.44, I.No.6.6.6 of PRE Electrical SR 2014-15)	Each	1				1.00	317.10	317.00
Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/ panel using necessary nuts, bolts and washers. 32 Amps (P.No.44 I.No.6.7.2 of PRE Electrical SR 2014-15)	Each	1				1.00	189.00	189.00

Description of work	Unit	No.	Dimensions			Qty	Rate		Amount
			L	B	D		In Rs.	In Rs.	
Supplying and fixing of shunt trip suitable for MCCB, CBCT, (P.No.46 L.No.6.14 of PRE Electrical SR 2014-15)	Each	1				1.00	1,560.30		1,560.00
Supplying and fixing regular MCCB destination panel conforming to IS 8828, on wall/ wooden board/ flush mounting using required clamps, bolts, nuts etc with provision for fixing of suitable type capacity MCCB's has an incomer for 3 phase double door with necessary bus /completely wired to use on 440 volts 3 phase 4 wire powder coated painting etc complete with a provision for fixing of single/ 3 phase suitable capacity MCCB/ MCB's has out goings conforming to IS 8828. 4 way (P.No.46 L.No.6.15.1 of PRE Electrical SR 2014-15)	Each	1				1.00	7,605.15		7,605.00
Supplying and fixing regular MCB distribution boards on wall/ wood board / flush mounting using required clamps, bolts, nuts etc with provision for fixing suitable type capacity MCB's single phase/ 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosed 11 - double door 4 way SP & N (P.No.47 L.No.6.17.4 of PRE Electrical SR 2014-15)	Each	1				1.00	1,120.35		1,120.00
Supplying and fixing and wiring earth leakage miniature circuit breaker (ELMCB) 240/450B up to 300 mA sensitivity on existing wood panel board. 16 to 25 Amps 2 pole (P.No.47 L.No.6.18.1 of PRE Electrical SR 2014-15)	Each	1				1.00	2,532.60		2,533.00
Supplying, fixing and wiring 0 to 30 volts direct reading DC Voltmeter/ Ammeter (P.No.48 L.No.6.21 of PRE Electrical SR 2014-15)	Each	1				1.00	623.70		624.00
Supplying and fixing of LED type panel board indicating lamp with require colour suitable for 220v A.C. 50Hz 12/24v D.C. (P.No.48 L.No.6.36 of PRE Electrical SR 2014-15)	Each	1				1.00	464.10		464.00
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm all around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc, the pipe shall have 16 through holes of 12mm dia (P.No.55 L.No.7.1 of PRE Electrical SR 2014-15)	No	1				1.00	2,863.35		2,863.00
Supplying and running of GI/copper strips for grounding connections, using necessary fixing materials as required. GI strip 40 x 6mm (P.No.55 L.No.7.3.3. of PRE Electrical SR 2014-15)	Mtr	1	1.50			1.50	174.30		261.00
Erection, electrification and commissioning wires and Pumpset etc.,	Each	1			MR	1.00	2,310.00		2,310.00
Erection of panel board and meter board units with all etc.	Each	1			MR	1.00	577.50		578.00
Total									500,931.00
Assistant Executive Engineer PRE Sub Division Hukkeri							Executive Engineer PRE Division Chikkodi		

RATE ANALYSIS

RATE ANALYSIS - 2012-13 - PWP&I/WTD, NORTH EAST ZONE, KALABURGI											
Sl. No.	Description	Item No.	Page No.	Unit	Basic Rate as per 17.18	Add 10% in Current Rate			Sub Total	A/W	Total A/W
						Coeff	10% Rate	Amount			
CIVIL WORKS											
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KRS 2.1(a) / 2.3.1 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 2.01, Page No.5)	2.1	6	Cum.	249.00	0.00	0.00	-	249.00	12.45	261.45
2	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KRS 2.1(a) / 2.3.5 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 2.03, Page No.5)	2.3	6	Cum.	299.00	0.00	299.00	-	299.00	14.95	313.95
3	KSRB 2-2.2 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KRS 2.1(a) / 2.3.5 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 2.04, Page No.5)	2.4	6	Cum.	449.00	0.00	449.00	-	449.00	22.45	471.45
4	KSRB 2-2.4 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc, either in pits or in trenches 1.50m and above in width, in soft rock without blasting not exceeding 1.50Mtr. in depth including, stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications. specification. No. KRS 2.1C/2.9.4/2.18/2.19 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 2.06, Page No.5)	2.6	6	Cum.	686.00	0.00	686.00	-	686.00	34.30	720.30
5	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, coating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyrphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KRS : 3.2.6 / 3.2.7 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 3.02, Page No.9)	3.2	10	Sqm	106.00	0.00	106.00	-	106.00	5.30	111.30
6	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kps, with 40mm and down size graded granite metal coarse aggregates @ 0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KRS 4.1, 4.2 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 4.03, Page No.12)	4.3	13	Cum.	5,199.00	3.60	23.00	82.80	5,281.80	264.09	5,545.89
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kps, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KRS 4.1, 4.2 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.06, Page No.12)	4.6	13	Cum.	5,525.00	4.80	23.00	110.40	5,635.40	281.77	5,917.17
a	Ground Floor	4.6	13	Cum.	5,525.00	4.80	23.00	110.40	5,635.40	281.77	5,917.17
b	First Floor	4.6	13	Cum.	5,525.00	4.80	23.00	110.40	5,635.40	281.77	5,917.17
c	Terrace	4.6	13	Cum.	5,525.00	4.80	23.00	110.40	5,635.40	281.77	5,917.17
8	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KRS 2.9.9 / 2.9.10.1 / 2.1.1 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 2.12, Page No.6)	2.12	7	Cum.	403.00	0.00	0.00	-	403.00	20.15	423.15
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KRS 2.9 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 2.10, Page No.6)	2.10	7	Cum.	201.00	0.00	0.00	-	201.00	10.05	211.05
10	KSRB 8.5 : Providing and laying cinder concrete in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing, complete as per specifications. (PWP North Zone, Dharwad SR 2016-17 - Item No. - 8.04, Page No.46)	8.4	48	Cum.	1,971.00	0.00	0.00	-	1,971.00	98.55	2,069.55
11	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 4.28, Page No.15)	4.28	16	Sqm.	253.00	0.00	0.00	-	253.00	12.75	265.75
12	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.31, Page No.15)	4.31	16	Sqm.	357.00	0.00	357.00	-	357.00	17.85	374.85
13	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KRS 4.6.2 (PWP&I/WTD North Zone, Dharwad SR 2016-17 - Item No. - 4.32, Page No.16)	4.32	16	Sqm.	456.00	0.00	0.00	-	456.00	22.80	478.80
a	Ground Floor	4.32	16	Sqm.	456.00	0.00	0.00	-	456.00	22.80	478.80
b	First Floor	4.32	16	Sqm.	456.00	0.00	0.00	-	456.00	22.80	478.80

c	Terrace	4.32	16	Sqm.	456.00	0.00	0.00	-	456.00	22.80	478.80
14	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 4.34, Page No.16)						0.00	-	-	-	-
a	Ground Floor	4.34	17	Sqm.	292.00	0.00	0.00	-	292.00	14.60	306.60
b	First Floor	4.34	17	Sqm.	292.00	0.00	0.00	-	292.00	14.60	306.60
15	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajias, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 4.37, Page No.16)						0.00	-	-	-	-
a	Ground Floor	4.37	17	Sqm.	320.00	0.00	0.00	-	320.00	16.00	336.00
b	First Floor	4.37	17	Sqm.	265.00	0.00	0.00	-	265.00	13.25	278.25
16	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 4.38, Page No.16)						0.00	-	-	-	-
a	Ground Floor	4.38	17	Sqm.	501.00	0.00	0.00	-	501.00	25.05	526.05
17	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications up to 3.50m from Ground level. Specification No. KBS 4.6.2 (PWP&IWTD North Zone, Dharwad SR 2016-17 - Item No. - 4.18, Page No.15)						0.00	-	-	-	-
a	Ground Floor	4.29.2	16	Sqm.	396.00	0.00	0.00	-	396.00	19.80	415.80
b	First Floor	4.29.2	16	Sqm.	396.00	0.00	0.00	-	396.00	19.80	415.80

18	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 Cum. and fine aggregates @ 0.47Cum., with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns/pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.10, Page No.13)						0.00						
a	Ground Floor	4.10	14	Cum.	5,859.00	6.80	23.00	156.40	6,015.40	300.77	6,316.17		
19	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisier @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.12, Page No.13)						0.00						
a	Ground Floor	4.12	14	Cum.	6,092.00	6.80	23.00	156.40	6,248.40	312.42	6,560.82		
b	First Floor	4.12	14	Cum.	6,092.00	6.80	23.00	156.40	6,248.40	312.42	6,560.82		
c	Terrace	4.12	14	Cum.	6,092.00	6.80	23.00	156.40	6,248.40	312.42	6,560.82		
20	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175Cum. and fine aggregates @ 0.0345Cum., with superplastisier @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.19, Page No.14)						0.00						
a	Ground Floor	4.19	15	Sqm.	444.00	0.048	23.00	1.10	445.10	22.26	467.36		
b	First Floor	4.19	15	Sqm.	444.00	0.048	23.00	1.10	445.10	22.26	467.36		
21	KSRB 4.2.12 : Extra for providing throating or drip moulding to R.C.C. chajja with plastering (labour charges only) as per specifications. Specification No. KBS (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.21, Page No.14)												
a	Ground Floor	4.21	15	M	33.00	0.00	0.00	-	33.00	1.65	34.65		
b	First Floor	4.21	15	M	33.00	0.00	0.00	-	33.00	1.65	34.65		
22	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.46.2, Page No.17) Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5 m. or part thereof cost of labour, complete as per specifications. (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.47, Page No.18)												
a	Ground Floor	4.46.2 & 4.47	16	Tonn e	70,306.00	0.00	0.00	-	70,306.00	3,515.30	73,821.30		
b	First Floor	4.46.2 & 4.47	16	Tonn e	70,306.00	0.00	0.00	-	70,306.00	3,515.30	73,821.30		
c	Terrace	4.46.2 & 4.47	16	Tonn e	70,306.00	0.00	0.00	-	70,306.00	3,515.30	73,821.30		
23	KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqm with cement mortar 1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 6.03, Page No.27)												
a	Ground Floor	6.3	29	Cum.	6,025.00	1.200	23.00	27.60	6,052.60	302.63	6,355.23		
b	First Floor	6.3	29	Cum.	6,025.00	1.200	23.00	27.60	6,052.60	302.63	6,355.23		
c	Terrace	6.3	29	Cum.	6,025.00	1.200	23.00	27.60	6,052.60	302.63	6,355.23		
24	KSRB 6-7.3 : Construction of partition wall 11.2 cms thick with non-modular ground moulded burnt bricks of class designation 3.5 Newton per sqm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 6.25, Page No.28)												
a	Ground Floor	6.25	31	Sqm.	789.00	0.180	23.00	4.14	793.14	39.66	832.80		
b	First Floor	6.25	31	Sqm.	789.00	0.180	23.00	4.14	793.14	39.66	832.80		
c	Terrace	6.25	31	Sqm.	789.00	0.180	23.00	4.14	793.14	39.66	832.80		
25	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing, complete as per specifications. (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 15.17, Page No.114)												
a	Ground Floor	15.17	116	Sqm.	245.00	0.020	23.00	0.46	245.46	12.27	257.73		
b	First Floor	15.17	116	Sqm.	245.00	0.020	23.00	0.46	245.46	12.27	257.73		
c	Terrace	15.17	116	Sqm.	245.00	0.020	23.00	0.46	245.46	12.27	257.73		
26	KSRB15-4.4 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick coat of materials complete as per specifications. (PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.26, Page No.114)												
a	Ground Floor	15.26	116	Sqm.	8.00	0.000	23.00	-	8.00	0.40	8.40		
b	First Floor	15.26	116	Sqm.	8.00	0.000	23.00	-	8.00	0.40	8.40		
c	Terrace	15.26	116	Sqm.	8.00	0.000	23.00	-	8.00	0.40	8.40		

[illegible]

a	Ground Floor	15.73	123	Sqm	41.00	0.000	23.00	-	41.00	2.05	43.05
b	First Floor	15.73	123	Sqm	41.00	0.000	23.00	-	41.00	2.05	43.05
40	KSRB 15.18.3 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (PWD North Zone, Dharwad SR 2016-17 - Item No. - 15.74, Page No.121)										
a	Ground Floor	15.74	123	Sqm	95.00	0.000	23.00	-	95.00	4.75	99.75
b	First Floor	15.74	123	Sqm	95.00	0.000	23.00	-	95.00	4.75	99.75
41	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KRS 7.12 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 7.09, Page No.32)										
a	Ground Floor	7.9	34	Kg	95.00	0.000	23.00	-	95.00	4.75	99.75
42	Providing and fixing M.S. Inspection door of size 60 cms x 60 cms, including M.S. frame, size 50 x 50 x 6 mm and shutters of 3mm thickness with hinges at top and locking arrangements, painting with all load and lifts etc., complete. (KUNYSD, Bangalore SR 2013-16 Item No. 12)										
c	Terrace		12	Each	2,205.00	0.000	23.00	-	2,205.00	-	2,205.00
43	Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre-punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable logs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures, size 1000 x 2130 mm (PWD North Zone, Dharwad SR 2016-17 - Item No. - 3.29, 3.30, 3.31, 3.32, 3.33, 3.34, 3.35, 3.36, 3.37, 3.38, 3.39, 3.40, 3.41, 3.42, 3.43, 3.44, 3.45, 3.46, 3.47, 3.48, 3.49, 3.50, 3.51, 3.52, 3.53, 3.54, 3.55, 3.56, 3.57, 3.58, 3.59, 3.60, 3.61, 3.62, 3.63, 3.64, 3.65, 3.66, 3.67, 3.68, 3.69, 3.70, 3.71, 3.72, 3.73, 3.74, 3.75, 3.76, 3.77, 3.78, 3.79, 3.80, 3.81, 3.82, 3.83, 3.84, 3.85, 3.86, 3.87, 3.88, 3.89, 3.90, 3.91, 3.92, 3.93, 3.94, 3.95, 3.96, 3.97, 3.98, 3.99, 4.00, 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22, 4.23, 4.24, 4.25, 4.26, 4.27, 4.28, 4.29, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41, 4.42, 4.43, 4.44, 4.45, 4.46, 4.47, 4.48, 4.49, 4.50, 4.51, 4.52, 4.53, 4.54, 4.55, 4.56, 4.57, 4.58, 4.59, 4.60, 4.61, 4.62, 4.63, 4.64, 4.65, 4.66, 4.67, 4.68, 4.69, 4.70, 4.71, 4.72, 4.73, 4.74, 4.75, 4.76, 4.77, 4.78, 4.79, 4.80, 4.81, 4.82, 4.83, 4.84, 4.85, 4.86, 4.87, 4.88, 4.89, 4.90, 4.91, 4.92, 4.93, 4.94, 4.95, 4.96, 4.97, 4.98, 4.99, 5.00, 5.01, 5.02, 5.03, 5.04, 5.05, 5.06, 5.07, 5.08, 5.09, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.17, 5.18, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24, 5.25, 5.26, 5.27, 5.28, 5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45, 5.46, 5.47, 5.48, 5.49, 5.50, 5.51, 5.52, 5.53, 5.54, 5.55, 5.56, 5.57, 5.58, 5.59, 5.60, 5.61, 5.62, 5.63, 5.64, 5.65, 5.66, 5.67, 5.68, 5.69, 5.70, 5.71, 5.72, 5.73, 5.74, 5.75, 5.76, 5.77, 5.78, 5.79, 5.80, 5.81, 5.82, 5.83, 5.84, 5.85, 5.86, 5.87, 5.88, 5.89, 5.90, 5.91, 5.92, 5.93, 5.94, 5.95, 5.96, 5.97, 5.98, 5.99, 6.00, 6.01, 6.02, 6.03, 6.04, 6.05, 6.06, 6.07, 6.08, 6.09, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34, 6.35, 6.36, 6.37, 6.38, 6.39, 6.40, 6.41, 6.42, 6.43, 6.44, 6.45, 6.46, 6.47, 6.48, 6.49, 6.50, 6.51, 6.52, 6.53, 6.54, 6.55, 6.56, 6.57, 6.58, 6.59, 6.60, 6.61, 6.62, 6.63, 6.64, 6.65, 6.66, 6.67, 6.68, 6.69, 6.70, 6.71, 6.72, 6.73, 6.74, 6.75, 6.76, 6.77, 6.78, 6.79, 6.80, 6.81, 6.82, 6.83, 6.84, 6.85, 6.86, 6.87, 6.88, 6.89, 6.90, 6.91, 6.92, 6.93, 6.94, 6.95, 6.96, 6.97, 6.98, 6.99, 7.00, 7.01, 7.02, 7.03, 7.04, 7.05, 7.06, 7.07, 7.08, 7.09, 7.10, 7.11, 7.12, 7.13, 7.14, 7.15, 7.16, 7.17, 7.18, 7.19, 7.20, 7.21, 7.22, 7.23, 7.24, 7.25, 7.26, 7.27, 7.28, 7.29, 7.30, 7.31, 7.32, 7.33, 7.34, 7.35, 7.36, 7.37, 7.38, 7.39, 7.40, 7.41, 7.42, 7.43, 7.44, 7.45, 7.46, 7.47, 7.48, 7.49, 7.50, 7.51, 7.52, 7.53, 7.54, 7.55, 7.56, 7.57, 7.58, 7.59, 7.60, 7.61, 7.62, 7.63, 7.64, 7.65, 7.66, 7.67, 7.68, 7.69, 7.70, 7.71, 7.72, 7.73, 7.74, 7.75, 7.76, 7.77, 7.78, 7.79, 7.80, 7.81, 7.82, 7.83, 7.84, 7.85, 7.86, 7.87, 7.88, 7.89, 7.90, 7.91, 7.92, 7.93, 7.94, 7.95, 7.96, 7.97, 7.98, 7.99, 8.00, 8.01, 8.02, 8.03, 8.04, 8.05, 8.06, 8.07, 8.08, 8.09, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, 8.19, 8.20, 8.21, 8.22, 8.23, 8.24, 8.25, 8.26, 8.27, 8.28, 8.29, 8.30, 8.31, 8.32, 8.33, 8.34, 8.35, 8.36, 8.37, 8.38, 8.39, 8.40, 8.41, 8.42, 8.43, 8.44, 8.45, 8.46, 8.47, 8.48, 8.49, 8.50, 8.51, 8.52, 8.53, 8.54, 8.55, 8.56, 8.57, 8.58, 8.59, 8.60, 8.61, 8.62, 8.63, 8.64, 8.65, 8.66, 8.67, 8.68, 8.69, 8.70, 8.71, 8.72, 8.73, 8.74, 8.75, 8.76, 8.77, 8.78, 8.79, 8.80, 8.81, 8.82, 8.83, 8.84, 8.85, 8.86, 8.87, 8.88, 8.89, 8.90, 8.91, 8.92, 8.93, 8.94, 8.95, 8.96, 8.97, 8.98, 8.99, 9.00, 9.01, 9.02, 9.03, 9.04, 9.05, 9.06, 9.07, 9.08, 9.09, 9.10, 9.11, 9.12, 9.13, 9.14, 9.15, 9.16, 9.17, 9.18, 9.19, 9.20, 9.21, 9.22, 9.23, 9.24, 9.25, 9.26, 9.27, 9.28, 9.29, 9.30, 9.31, 9.32, 9.33, 9.34, 9.35, 9.36, 9.37, 9.38, 9.39, 9.40, 9.41, 9.42, 9.43, 9.44, 9.45, 9.46, 9.47, 9.48, 9.49, 9.50, 9.51, 9.52, 9.53, 9.54, 9.55, 9.56, 9.57, 9.58, 9.59, 9.60, 9.61, 9.62, 9.63, 9.64, 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16.85, 16.86, 16.87, 16.88, 16.89, 16.90, 16.91, 16.92										

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RATE ANALYSIS - 2017-18 - PWP&IWTD, NORTH ZONE, DHARWAD							
Sl. No.	Description	Item No.	Page No.	Unit	Basic Rate as per 16-17	A.W	Total +A.W
						5%	
WATER SUPPLY AND SANITARY WORKS							
1	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 25mm nominal OD pipes (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.87.3, Page No.97)	13.87.3	99	M	173.00	8.65	181.65
2	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.86.2, Page No.96)	13.86.2	99	M	235.00	11.75	246.75
3	KSRB13-6.4-3 : Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.42, Page No.92)	13.42	94	Each	513.00	25.65	538.65
4	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3 (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.34, Page No.91)	13.34	94	Each	449.00	22.45	471.45
5	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.26, Page No.91)	13.26	93	Each	236.00	11.80	247.80
6	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.23, Page No.91)	13.23	93	Each	190.00	9.50	199.50
7	KSRB 11-11.2 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.24, Page No.81)	12.24	81	Unit	171.00	8.55	179.55
8	Providing 20mm thick grey granite as Urinals separator - 2017-18 Sr-P.NO VI	Code No. 0518 (Sl. No.163)	VII	Sqm	889.83	44.49	934.32
	MR			Nos	250.00	12.50	262.50
9	Fixing of 20mm thick grey granite as urinal separator						
10	Providing and fixing white vitreous china clay urinals with flat back of approved make fixed to wooden plugs including bends, painting white to exposed pipes etc., complete as per directions.(rate includes cost of all materials and lead).A grade. (PWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 12.109, Page No.88)	12.109	90	Each	850.00	42.50	892.50
11	Providing white vitreous china clay Indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in Position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 cms - A Grade (Rate includes cost of all materials and conveyance to work spot). (PWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 12.110, Page No.88)	12.110	90	No.	950.00	47.50	997.50
12	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.02, Page No.77)	12.02	79	Pan	4224.00	211.20	4,435.20
13	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.05, Page No.77)	12.05	79	Each	4956.00	247.80	5,203.80
14	Supply and fixing of approved quality <u>Health Faucet</u> as per the direction of Engineer-in-charge of the work (DR)	Data Rate		Nos	1450.00	72.50	1,522.50
15	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.41, Page No.87)	12.41	84	Unit	1136.00	56.80	1,192.80

16	KSRB 11-17.2 : Providing and fixing C.P. brass towel rail 600 mm length, 20mm dia with C.P. brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.46, Page No.83)	12.46	85	Unit	878.00	31.70	272.70
17	KSRB 11-16 : Providing and fixing 600x120mm glass shelf supported on aluminium angle frame with C.P. brass brackets, guard rail fixed to wooden cleats with C.P. brass screws and washers including cost of materials, labour complete as per specifications. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.44, Page No.83)	12.44	85	Unit	1082.00	34.10	1,136.10
18	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5 Cms. x 7.5 Cms. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.113.2, Page No.88)	12.113.2	90	Each	285.00	14.25	299.25
19	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.111, Page No.88)	12.111	90	Each	150.00	7.50	137.50
20	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). - 10cms x 10cms (PWD North Zone, Dharwad SR 2016-17- Item No. - 12.112.1, Page No.88)	12.112.1	90	Each	190.00	9.50	199.50
21	KSRB13-6.6-2 : Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 450mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.47, Page No.92)	13.47	94	Set	264.00	13.20	1277.20
22	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity) Specification No.KBS 13.22 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 13.78, Page No.94)	13.78	96	Nos.	6828.00	341.40	7,169.40
23	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. - 110mm dia (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.116.1, Page No.88)	12.116.1	90	M	434.00	21.70	455.70
24	KSRB13-8.7 : Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgs/sqcm working pressure 75mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 for Internal watersupply connection (PWD North Zone, Dharwad SR 2016-17- Item No. - 13.70.3, Page No.93)	13.70.3	96	M	326.00	16.30	342.30
25	Constructing brick masonry inspection chamber 450 X 300mm. and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 5 with 40mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x300mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 450 X 300mm (PWD North Zone, Dharwad SR 2016-17- Item No. - 11.50.3, Page No.74)	11.50.3	76	Nos.	5300.00	265.00	3,965.00
26	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 2.03, Page No.5)	2.03	6	Cum.	299.00	14.95	113.95
27	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (PWD North Zone, Dharwad SR 2016-17- Item No. - 2.11, Page No.6)	2.11	7	Cum.	121.00	6.05	137.05
28	Providing and commissioning 1/ HP / 0.75kV Single phase Atalanti/Suguna/Kirloskar/other equivalent submersible motor & other accessories	1	XLIII	Nos.	14924.00	746.20	13,670.20

Assistant Executive Engineer
PRE Sub Division Hukkeri

RASTRIYA MADHYAMIKA SHIKSHANA ABHIYANA

Analysis for Electrification Work

No.	Description	Unit	Rate	AW	Total
				5%	
1	Concealed Conduit System Supplying heavy gauge PVC conduit pipemm diamm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary (Elec SR - 2014-15 - Item No. - 1.2)(Page No. - 2)	Mtr.	57.00	2.85	59.85
2	P.No.2, I.No.1.2 (1.2.2) (25mm dia 2mm thick) Supplying heavy gauge PVC Conduit Pipediamm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (Elec SR - 2014-15 - Item No. - 1.3)(Page No. - 2)	Mtr.	58.00	2.90	60.90
3	P.No.2, I.No.1.3 (1.3.2) (25mm dia 2mm thick)(Groove) Supplying and fixing PVC/metal conduit Deep junction box (Elec SR - 2014-15 - Item No. - 1.5)(Page No. - 2)	Mtr.	51.00	2.55	53.55
4	P.No.2 & 3, I.No.1.5(1.5.2) (25mm dia 2mm thick) Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)	Each	87.00	4.35	91.35
5	P.No.3, I.No.1.6 (1.6.3) (10"x7"x3") Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)	Each	73.00	3.65	76.65
6	P.No.3, I.No.1.6 (1.6.4) (8"x6"x3") Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)	Each	68.00	3.40	71.40
7	P.No.3, I.No.1.6 (1.6.5) (4"x4"x3") Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6)(Page No. - 3)	No.	92.00	4.60	96.60
8	P.No.3, I.No.1.12 (Fan Box) Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A (Elec SR - 2014-15 - Item No. - 2.1)(Page No. - 5)	Point	174.00	8.70	182.70
9	P.No.5, I.No.2.1 (2.1.1) (Point Wiring) Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A. Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch (Elec SR - 2014-15 - Item No. - 2.1.2)(Page No. - 5)	Point	245.00	12.25	257.25
	P.No.5, I.No.2.1 (2.1.2) (Point Wiring) Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A. Long point above 6Mtr upto 10Mtr from tapping point to out let via switch (Elec SR - 2014-15 - Item No. - 2.1.3)(Page No. - 5)	Point	363.00	18.15	381.15
	P.No.5, I.No.2.1 (2.1.3) (Point Wiring)				

	Description	Unit	Rate	AW	
11	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6) P.No.6, I.No.2.5 (2.5.2) (1.5 Sq.mm)	Mtr.	18.60	0.93	19.53
12	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6) P.No.6, I.No.2.5 (2.5.3) (2.5 Sq.mm)	Mtr.	29.20	1.46	30.66
13	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6) P.No.6, I.No.2.5 (2.5.4) (4 Sq.mm)	Mtr.	42.10	2.11	44.21
14	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5)(Page No. - 6) P.No.6, I.No.2.5 (2.5.5) (6 Sq.mm)	Mtr.	63.80	3.19	66.99
15	Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 (Elec SR - 2014-15 - Item No. - 3.1)(Page No. - 15) P.No.15, I.No.3.1 (3.1.2) (6A 'U' Socket)	Each	150.00	7.50	157.50
16	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A (Elec SR - 2014-15 - Item No. - 3.15.A)(Page No. - 18) P.No.18, I.No.3.15 (3.15.A.1) (6A Switches)	Each	35.00	1.75	36.75
17	Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 (Elec SR - 2014-15 - Item No. - 3.2)(Page No. - 15) P.No.15, I.No.3.2 (2Way Switches)	Each	171.00	8.55	179.55
18	Supply and fixing of Bakelite D.P./Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 GROUP A (Elec SR - 2014-15 - Item No. - 3.3.A)(Page No. - 15) P.No.15, I.No.3.3 (3.3.A.1) (32 A Flush type DP's)	Each	187.00	9.35	196.35
19	Supply and fixing of Bakelite D.P./Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 GROUP A (Elec SR - 2014-15 - Item No. - 3.3.A)(Page No. - 15) P.No.15, I.No.3.3 (3.3.A.3) (16A 'U' Socket)	Each	99.00	4.95	103.95
20	Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 (Elec SR - 2014-15 - Item No. - 3.2)(Page No. - 15) P.No.15, I.No.3.3 (3.3.A.5) (Fan Regulator)	Each	211.00	10.55	221.55
21	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A (Elec SR - 2014-15 - Item No. - 3.15.A)(Page No. - 18) P.No.18, I.No.3.15 (3.15.A.7) (Bell Push)	No.	48.00	2.40	50.40
22	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws. (Elec SR - 2014-15 - Item No. - 16.1)(Page No. - 104) P.No.104, I.No.16.1 (Buzzer)	Each	145.00	7.25	152.25
23	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. (Elec SR - 2014-15 - Item No. - 4.2)(Page No. - 20) P.No.20, I.No.4.2 (PBBC S/S Holders)	Each	88.00	4.40	92.40
24	Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A (Elec SR 2014-15, tem No. 3.7 A) (Page No. 20) P.No.16 & 17, I.No.3.7 (3.7.B.23) (TV/Tele.Socket)	Each	67.00	3.35	70.35

	Description	Unit	Rate	AW	
25	Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A(Elec SR 2014-15, tem No. 3.7 A) (Page No. 20)				
	P.No.16 & 17, I.No.3.7 (3.7.B.24) (RJ45/IO,Outlet)	Each	167.00	8.35	175.35
26	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. (Elec SR - 2014-15 - Item No. - 3.9)(Page No. - 17)				
	P.No.17, I.No.3.9 (4mm Plastic sheet)	Sq.Cm	0.25	0.01	0.26
27	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. (Elec SR - 2014-15 - Item No. - 4.4)(Page No. - 20)				
	P.No.20, I.No.4.4 (Bulk Head Fitting)	Each	952.00	47.60	999.60
28	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic. (Elec SR - 2014-15 - Item No. - 4.7)(Page No. - 20)				
	P.No.20, I.No.4.7 (4.7.1) (FTL 1 x 4' - 28W)	Each	990.00	49.50	1039.50
29	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) (Elec SR - 2014-15 - Item No. - 9.3.1)(Page No. - 78)				
	P.No.78, I.No.9.3 (9.3.1.1) (Ceiling Fan)	Each	2376.00	118.80	2494.80
30	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. (Elec SR - 2014-15 - Item No. - 9.2)(Page No. - 78)				
	P.No.78, I.No.9.2 (9.2.1) (Exhaust Fan)	Each	3654.00	182.70	3836.70
31	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (Elec SR - 2014-15 - Item No. - 17.7)(Page No. - 108)				
	P.No.108, I.No.17.7 (17.7.1) (Fixing of FTL)	Each	98.00	4.90	102.90
32	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (Elec SR - 2014-15 - Item No. - 17.8)(Page No. - 110)				
	P.No.109, I.No.17.8 (Fixing of Ceiling Fan)	Each	139.00	6.95	145.95
33	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. (Elec SR - 2014-15 - Item No. - 17.11)(Page No. - 110)				
	P.No.109, I.No.17.11 (Fixing of Exhaust Fan)	Each	680.00	34.00	714.00
34	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door (Elec SR - 2014-15 - Item No. - 6.17.III)(Page No. - 47)				
	P.No.47, I.No.6.17 III (6.17.III.8) (6Way TP&N DB's DD)	Each	2867.00	143.35	3010.35
35	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross 3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Elec SR - 2014-15 - Item No. - 6.16)(Page No. - 47)				
	P.No.47, I.No.6.16 (6.16.1) (5 to 32 A SP MCB)	Each	418.00	20.90	438.90
36	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross 3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Elec SR - 2014-15 - Item No. - 6.16)(Page No. - 47)				
	P.No.47, I.No.6.16 (6.16.3) (5 to 32 A DP MCB)	Each	849.00	42.45	891.45
37	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. (Elec SR - 2014-15 - Item No. - 6.18)(Page No. - 47)				
	P.No.47, I.No.6.18 (6.18.3) (32 to 40 A ELMCB)	Each	2936.00	146.80	3082.80

	Description	Unit	Rate	AW	
38	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Elec SR - 2014-15 - Item No. - 7.1)(Page No. - 55)	No.	2727.00	136.35	2863.35
	P.No.55, I.No.7.1 (Earthing)				
39	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire (Elec SR - 2014-15 - Item No. - 7.22.A)(Page No. - 64)				
	P.No.64, I.No.7.22 (7.22.A.3) (GI Wire 8SWG)	Mtr.	19.50	0.98	20.48
40	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (Elec SR - 2014-15 - Item No. - 6.4)(Page No. - 49)				
	P.No.49, I.No.6.40 (6.40.2) (MS Sheet 16 SWG)	Sq.Cm	0.33	0.02	0.35
41	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply. (Elec SR - 2014-15 - Item No. - 6.11)(Page No. - 45)	Each	6426.00	321.30	6747.30
	P.No.45, I.No.6.11 (6.11.2) (Change Over Switch)				
42	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE (Elec SR - 2014-15 - Item No. - 6.13.A)(Page No. - 46)	Each	4044.00	202.20	4246.20
	P.No.46, I.No.6.13 (6.13.A.1) (MCCB)				
43	Supplying, fixing and wiring 3 Phase Digital Ammeter /Voltmeter. (Elec SR - 2014-15 - Item No. - 6.27)(Page No. - 48)	Each	1224.00	61.20	1285.20
	P.No.48, I.No.6.27 (Digital Ameter & Voltmeter)				
44	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. (Elec SR - 2014-15 - Item No. - 6.36)(Page No. - 48)	Each	442.00	22.10	464.10
	P.No.48, I.No.6.36 (LED Indicating Lamps)				
45	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Elec SR - 2014-15 - Item No. - 6.38)(Page No. - 49)	Mtr.	2135.00	106.75	2241.75
	P.No.49, I.No.6.38 (6.38.1) (Bus Bar)				
46	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. (Elec SR - 2014-15 - Item No. - 6.32)(Page No. - 48)	Each	483.00	24.15	507.15
	P.No.48, I.No.6.32 (CT Coils)				
47	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (Elec SR - 2014-15 - Item No. - 6.39)(Page No. - 49)	Mtr.	338.00	16.90	354.90
	P.No.49, I.No.6.39 (6.39.2) (MS Frame)				
48	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. (Elec SR - 2014-15 - Item No. - 6.31)(Page No. - 48)	Each	8003.00	400.15	8403.15
	P.No.48, I.No.6.31 (Digital KWH Meter)				
49	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. (Elec SR - 2014-15 - Item No. - 7.4)(Page No. - 55)	Mtr.	265.00	13.25	278.25
	P.No.55 & 56, I.No.7.4 (7.4.7) (UG Cable)				
50	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (Elec SR - 2014-15 - Item No. - 7.21)(Page No. - 64)				

	Description	Unit	Rate	AW	
	P.No.64, I.No.7.21 (7.21.9) (Lugs)	Each	62.40	3.12	65.52
51	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (Elec SR - 2014-15 - Item No. - 7.14)(Page No. - 62)				
	P.No.62, I.No.7.14 (7.14.5) (Gland)	Each	264.00	13.20	277.20
52	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. (Elec SR - 2014-15 - Item No. - 7.8.A)(Page No. - 61)				
	P.No.61, I.No.7.8 (7.8.A.2) (Labour for Cable Laying)	Mtr.	16.20	0.81	17.01
53	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (Elec SR - 2014-15 - Item No. - 7.9)(Page No. -)				
	P.No.61, I.No.7.9 (7.9.2) (Earth Excavation)	Mtr.	106.00	5.30	111.30
54	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. (Elec SR - 2014-15 - Item No. - 7.13)(Page No. - 62)				
	P.No.62, I.No.7.13 (7.13.5) (L.T. Pot Head)	Each	637.00	31.85	668.85
55	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (Elec SR - 2014-15 - Item No. - 6.7)(Page No. - 44)				
	P.No.44 & 45, I.No.6.7 (6.7.3) (Fuse Cutouts)	Each	234.00	11.70	245.70
56	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. (Elec SR - 2014-15 - Item No. - 7.12)(Page No. - 62)				
	P.No.62, I.No.7.12 (7.12.2) (GI Pipe)	Mtr.	391.00	19.55	410.55
57	Supplying and drawing UTP-CAT 6E LAN cable. (Elec SR - 2014-15 - Item No. - 11.1)(Page No. - 85)				
	P.No.85, I.No.11.1 (Lan Cable)	Mtr.	23.00	1.15	24.15

Assistant Executive Engineer
PRE Sub Division Hukkeri

Executive Engineer
PRE Division Chikkodi

Sl. No.	Description	Item No.	Page No.	Unit	Basic Rate as per 16-17	Coef	Diff Rate	Amount	Sub Total	AW	Total +A.W
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.03, Page No.12)	4.03	13	Cum.	5,199.00	3.60	23.00	82.80	5,281.80	264.09	5,545.89
4	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12(PWD North Zone, Dharwad SR 2016-17 - Item No. 5.3, Page No.25)	5.03	25	Cum.	3,627.00	1.40	23.00	32.20	3,659.20	182.96	3,842.16
5	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix 1:2:4 (M15) with OPC cement @ 180kgs, with 20mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.05, Page No.12)	4.05	13	Cum.	5,376.00	6.00	23.00	138.00	5,514.00	275.70	5,789.70
6	KSRB 2.3 : Filling, available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 2.10, Page No.6)	2.10	7	Cum.	201.00	0.00	201.00	-	201.00	10.05	211.05
7	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 Cum. and fine aggregates @ 0.47Cum. with super plasticisers @ 3 liters conforming to IS 9103-1999 readmired-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.10, Page No.13)	4.10	14	Cum.	5,859.00	6.80	23.00	156.40	6,015.40	300.77	6,316.17
8	KSRB 4.9.2 : Providing, T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 4.46.2, Page No.17)	4.46.2	18	Tonne	70,306.00	0.00	70306.00	-	70,306.00	3,515.30	73,821.30
9	Providing Brick bats 25 to 100 mm (PWP&IWT North Zone, Dharwad SR 2016-17 - Sl.No.-9, Code 0054 , Page No.1)	Sl.No.-9, Code 0054	1	Cum	593.22	0.00	593.22	-	593.22	29.66	622.88
SEPTIC TANK											
1	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 2.03, Page No.5)	2.03	6	Cum.	299.00	0.00	299.00	-	299.00	14.95	313.95
2	KSRB 2-2.2 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5 (PWP&IWT North Zone, Dharwad SR 2016-17 - Item No. - 2.04, Page No.5)	2.04	6	Cum	449.00	0.00	449.00	-	449.00	22.45	471.45
3	KSRB 2-2.4 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc, either in pits or in trenches 1.50m and above in width, in soft rock without blasting not exceeding 1.50m (tr.s) in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications. specification. No. KBS 2.1C/2.9.4/2.18/2.19 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 2.06, Page No.5)	2.06	6	Cum.	686.00	0.00	686.00	-	686.00	34.30	720.30
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 4.03, Page No.12)	4.03	13	Cum.	5,199.00	3.60	23.00	82.80	5,281.80	264.09	5,545.89
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum. machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing and complete as per specifications. Specification No. KBS 4.1, 4.2 (PWP North Zone, Dharwad SR 2016-17- Item No. - 4.06, Page No.12)	4.06	13	Cum.	5,525.00	4.80	23.00	110.40	5,635.40	281.77	5,917.17
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9 (PWP&IWT North Zone, Dharwad SR 2016-17- Item No. - 2.10, Page No.6)	2.10	7	Cum.	201.00	0.00	201.00	-	201.00	10.05	211.05
7	KSRB 4-6.2 : Providing and removing centring, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (PWP North Zone, Dharwad SR 2016-17 - Item No. - 4.36, Page No.16)	4.18	15	Sqm.	307.00	0.00	307.00	-	307.00	15.35	322.35
8	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (PWP North Zone, Dharwad SR 2016-17 - Item No. - 4.36, Page No.16)	4.36	17	Sqm	722.00	0.00	722.00	-	722.00	36.10	758.10

Description	Item No.	Page No.	Unit	Basic Rate as per 16-17	Coeff	Diff Rate	Amount	Sub Total	AW	Total +A.W
KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillers, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.10, Page No.13)	4.10	14	Cum	5,859.00	6.80	23.00	156.40	6,015.40	300.77	6,316.17
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (PWD North Zone, Dharwad SR 2016-17 - Item No. - 4.46.2, Page No.17)	4.46.2	18	Ton	70,306.00	0.00	70306.00	-	70,306.00	3,515.30	73,821.30
KSRB 6.1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqmm with cement mortar 1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (PWD North Zone, Dharwad SR 2016-17- Item No. - 6.03, Page No.27)	6.03	29	Cum	6,025.00	1.20	23.00	27.60	6,052.60	302.63	6,355.23
KSRB 6.7.3 : Construction of <u>partition wall 11.2 cms thick with non-modular ground moulded burnt bricks of class designation 3.5 Newton per sqmm with cement mortar 1:4</u> including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (PWD North East Zone Kalburagi SR 2017-18 - Item No. - 6.25, Page No.28)	6.25	31	Sqm.	789.00	0.18	23.00	4.14	793.14	39.66	832.80
KSRB15-3.9 :Providing, 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (FWP&IWTD North Zone, Dharwad SR 2016-17- Item No. - 15.17, Page No.114)	15.17	116	Sqm	245.00	0.02	23.00	0.46	245.46	12.27	257.73
KSRB15-4.4 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. (PWD North Zone, Dharwad SR 2016-17- Item No. - 15.26, Page No.114)	15.26	116	Sqm	8.00	0.00	8.00	-	8.00	0.40	8.40
Supplying and fixing M.S. sump tank cover of size 0.60 x 0.60cms made out of M.S. angle of size 25x25x6mm for frame and 14 G M.S. sheet welded and providing locking arrangements and fixing the same in Cement concrete with necessary hinges, painting etc., complete. (PWD North Zone, Dharwad SR 2016-17, Page No.XXXIX)	XXXIX		Nos	3,266.00	0.02	23.00	0.46	3,266.46	163.32	3,429.78
KSRB 12-6.3 : Providing cast iron footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete complete as per specifications.	11.46	75	Nos.	236.00	0.00	236.00	-	236.00	11.80	247.80
Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirments and testing complete as per specifications. - 110mm dia (PWD North Zone, Dharwad SR 2016-17 - Item No. - 12.116.1, Page No.88)	12.116.1	90	M	434.00	0.00	434.00	-	434.00	21.70	455.70
Providing and fixing of vent cowl - 100 mm dia (P trap 2" vent)	XXII	4*	Nos.	500.00	0.00	500.00	-	500.00	25.00	525.00

Executive Engineer
PRE Division Chikodi

Assistant Executive Engineer
PRE Sub Division Hukkeri

Rate Analysis For Sinking of Borewell & Instalation of Pumpset & Electrification

Sl. No	Description of work	Unit	SR	SR	Item	Basic Rate	AW	Total Rate
				Page No.	No.	in Rs.		in Rs.
PIPE LINE								
1	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following						5%	
		Cum	WS2019-2	1	1.2.2	1,106.00	55.30	1,161.30
2	Earthwork excavation for pipeline trenches including depositing on bank upto a lead of 50mts. Including shoring and strutting,danger lighting and using sight rails and boning rods at every 100 mtrs.Wherever necessary as							
	In Hard soil	Cum	WS2019-2	1	1.2.2	262.00	13.10	275.10
3	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, consolidation in layers of 15cm thick including disposing of the	Cum	WS2019-2	3	1.6	103.00	5.15	108.15
4	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including cost lowering into trenches,laying tre to line,level and perfect lning at joints leak proof including jointing of approved type with all labour and lift charges,handling charges including encasing the pipe alrond to a depth not lss than 15 cms with PVC pipes of 6kg/cm2, a) 75 mm	Mtr	RWS2019-	14 & 15	3.4.2	207.00	10.35	217.35
							-	-
5	Giving hydraulic test for C.I./R.C.C./P.V.C/H.D.P.E or A.C. pipelines to the pressure equal 2 times the working pressure	Mtr	PRE 2012-	16	3.7.1	5.80	0.29	6.09
							-	-
6	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs,with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills,	Mtr	PRE 2012-	16	3.7.1	5,376.00	268.80	5,644.80

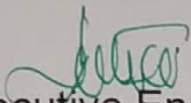
	Upto 80mm						-	-
	SINKING OF BORE WELL							
6	Sinking of borewell of 165 mm dia clear using fast rig in all strata including over burden upto 30 M fixing of casing pipes, collars and cap with necessary cutting & threading including transportation of rig and supporting vehicle crew charges and cost of consumables, etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of						-	-
	0 To 50 mts	Rmt	WS2019-2	46	9.1.1	347.00	17.35	364.35
	50 to 100 mts	Rmt	WS2019-2	46	9.1.2	442.00	22.10	464.10
	100 to 150 mts	Rmt	WS2019-2	46	9.1.3	456.00	22.80	478.80
	150 to 200 mts	Rmt	WS2019-2	46	9.1.4	536.00	26.80	562.80
6	BORE WELL WORK Geophysical investigation of site for sinking Borewell for supplying drinking water to Habitation either through the Handpump, MWS or PWSS by vertical sounding by adopting veener sounding by adopting veener or schlumbergers's including reconassiance of survey of Geological formation,geophysical investigation of existing ground water in the vicinity quality, quantity and acceptability of the user including the location of site,recommended department of casing pipe required to seal the top and consolidated formation including an extra depth of 1.00Mtr in consolidated formation including an extra depth of drilling required to cover full depth of occupier proposed to trap probable yield and other information required including transportation of instrument and accessories to work site engaging technical	Each	WS2019-2	47 & 48	9.4	2,100.00	105.00	2,205.00
7	Yield Testing of Borewell at final depth with a minimum of 10 hrs continuously with the help of pump testing unit including the cost of transportation charges, and cost of consumables	Each	WS2019-2	49	9.9	9,850.00	492.50	10,342.50

8	Supply of ISI Mark 175 mm nominal Bore. Plain end steel casing Pipe - grade of Steel Fe410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. both the end threaded confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with	Rmt	WS2019-2	iii	84	1,450.00	72.50	1,522.50
9	Supply of 175mm M.S.Cap	Each	WS2019-2	iii	85	350.00	17.50	367.50
	PUMPINH MACHINARY							
10	Supplying & delivering at site submersible three phase pumpset, 10HP / 2.2kW, ATALANTA, SUGUNA, CRI, KIRLOSKAR &	Each	PW,P & IWTD 2017-18	XXXXI	1	41,256.00	2,062.80	43,318.80
11	KSRB13-6.3-1 :Providing and fixing in position brass gate valve with C.I wheel of approved quality including cost of all materials,labour and HOM of equipments with all leads	Each	PW,P & IWTD 2016-17	92	13.36	1,190.00	59.50	1,249.50
	40 mm nominal dia						-	-
12	Supply and delivery at site 50mm(2") dia heavy duty unplasticized PVC Column pipes with heavy duty collers, rubber profile ring, vibration control profile ring, freezing and turbulence free leak proof EPDM	Mtr	PW,P & IWTD 2016-17	94	13.72	498.00	24.90	522.90
							-	-
13	KSRB 13-7.2-4: Providing and fixing in position 25 mm nominal bore non return valve vericle type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	No	PW,P & IWTD 2016-17	93	13.61	1,175.00	58.75	1,233.75
	do for 40 mm dia						-	-
14	Providing NP/CP based unions conforming to ISI specificatins and fixing them in position as per directions including cost materials, fixtures and conveyance to work	Each	PW,P & IWTD 2016-17	95	13.81.2	220.00	11.00	231.00
	do for 40 mm dia						-	-

15	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 3C X 4.0Sq.mm	Mtr	Ele 2014-1	12	2.10.3	108.00	5.40	113.40
							-	-
16	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 40/440 volts 3 phase and wired Upto 12.5 HP	Each	Ele 2014-1	44	6.2.1	6,583.00	329.15	6,912.15
							-	-
17	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motor up to 20 HP capacities.	Each	Ele 2014-1	44	6.3	768.00	38.40	806.40
18	Fixing a shunt capacitor of KVAR capacity with necessary clamps, bolts and nuts more existing wooden or metal board including banking of more than 1 capacitor 6 to 10 KVAR	Each	Ele 2014-1	44	6.4.2	198.00	9.90	207.90
							-	-
19	Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered 20" x 20" x 2.5"	Each	Ele 2014-1	44	6.6.6	302.00	15.10	317.10
							-	-
20	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 32Amps	Each	Ele 2014-1	44	6.7.2	180.00	9.00	189.00
							-	-
21	Supplying and fixing of shunt trip suitable for MCCB. CBCT.	Each	Ele 2014-1	46	6.14	1,486.00	74.30	1,560.30

22	Supplying and fixing regular MCCB destination panel conforming to IS 8828, on wall/wooden board/flush mounting using required clamps, bolts, nuts etc with provision for fixing of suitable type capacity MCCB's has an incomer for 3 phase double door with necessary bus /completely wired to use on 440 volts 3 phase 4 wire powder coated painting etc complete with a provision for 4 way	Each	Ele 2014-1	46	6.15.1	7,243.00	362.15	7,605.15
23	Supplying and fixing regular MCB distribution boards on wall/ wood board / flush mounting using required clamps, bolts, nuts etc with provision for fixing suitable type capacity MCB's single phase/ 3 phase / single door with powder II - double door, 4 way SP & N	Each	Ele 2014-1	47	6.17.4	1,067.00	53.35	1,120.35
24	Supplying and fixing and wiring earth leakage miniature circuit breaker (ELMCB) 240/450B up to 300 mA sensitivity on existing wood panel board.	Each	Ele 2014-1	47	6.18.1	2,412.00	120.60	2,532.60
25	Supplying, fixing and wiring 0 to 30 volts direct reading DC Voltmeter/ Ammeter	Each	Ele 2014-15	48	6.21	594.00	29.70	623.70
26	Supplying and fixing of LED type panel board indicating lamp with require colour suitable for 220v A.C. 50Hz 12/24v D.C.	Each	Ele 2014-15	48	6.36	442.00	22.10	464.10
27	Supplying , fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm all around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122mm dia	No	Ele 2014-15	55	7.1	2,727.00	136.35	2,863.35
28	Supplying and running of GI/copper strips for grounding connections, using necessary fixing	Mtr	Ele 2014-1	55	7.3.3	166.00	8.30	174.30

	GI strip, 40 x 6mm						
29	Erection, electrification and commissioning wires and Pumpset etc.,	Each	MR	2,200.00	110.00	2,310.00	
30	Erection of panel board and meter board units with all etc.,	Each	MR	550.00	27.50	577.50	


Assistant Executive Engineer
PRE Sub Division Hukkeri

DRAWING

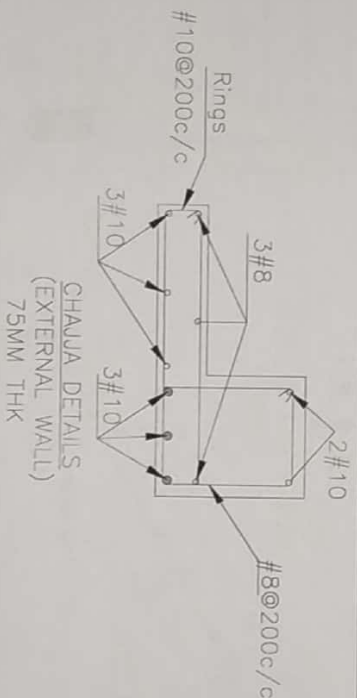
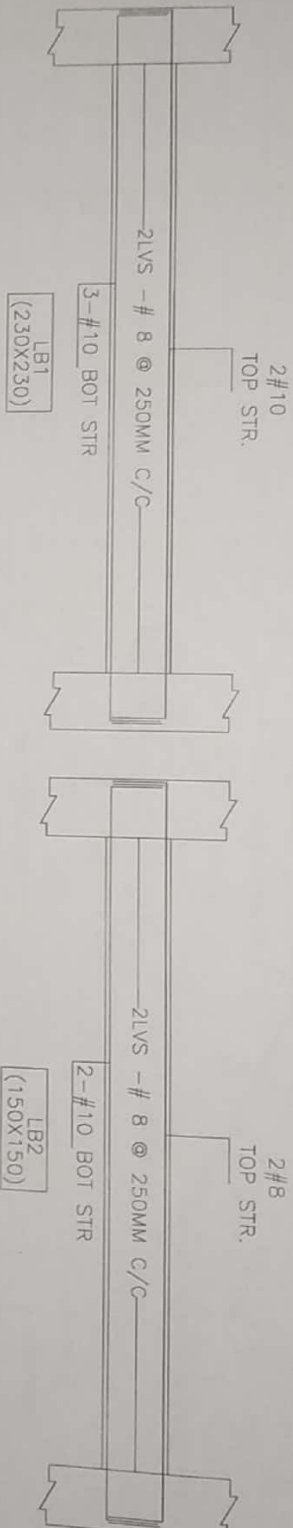
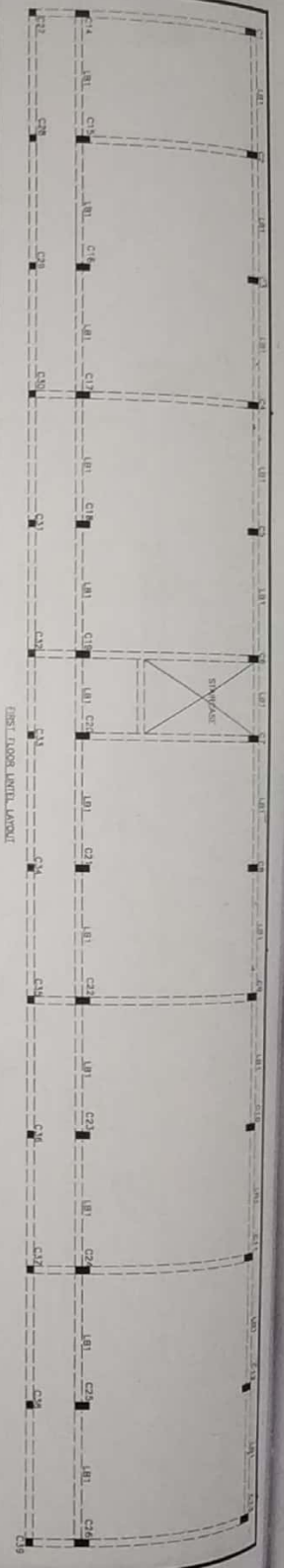
DRAWING

GROUND FLOOR BEAM SCHEDULE IN X-DIR:

SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS DETAILS		NO OF LEGS	REMARKS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	CENTER SPAN	FACE TO 2D	CENTER SPAN		
1	GB1	230	450	2	12	2	12	200	200	2	-
2	GB2	230	450	2	12	2	12	200	200	2	-
3	GB3	230	450	2	12	2	12	200	200	2	-
4	GB4	230	450	2	12	2	12	200	200	2	-
5	GB5	230	450	2	12	2	12	200	200	2	-
6	GB6	230	450	2	12	2	12	200	200	2	-
7	GB7	230	450	2	12	2	12	200	200	2	-
8	GB8	230	450	2	12	2	12	200	200	2	-
9	GB9	230	450	2	12	2	12	200	200	2	-
10	GB10	230	450	2	12	2	12	200	200	2	-
11	GB11	230	450	2	12	2	12	200	200	2	-
12	GB12	230	450	2	12	2	12	200	200	2	-
13	GB13	230	450	2	12	2	12	200	200	2	-
14	GB14	230	450	2	12	2	12	200	200	2	-
15	GB15	230	450	2	12	2	12	200	200	2	-
16	GB16	230	450	2	12	2	12	200	200	2	-
17	GB17	230	450	2	12	2	12	200	200	2	-
18	GB18	230	450	2	12	2	12	200	200	2	-

STR/PRE/HKR/GTD/RCC/10		TITLE: GROUND FLOOR BEAM SCHEDULE IN X-DIR.		MADE OF WORK:		KES	
DATE: 13.07.2018	DRAWN BY: SC	CLIENT: EXECUTIVE ENGINEER, PRE. DEPT., CHIKODI DIVISION, BELAGAVI DISTRICT.	CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.		KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHRUSHTI BUILDING, 237/3 II FLOOR ABOVE ROYAL COLDRINKS MAIN ANGOOL ROAD, BELAGAVI.		
REV: RVC	CHECKED BY: HS						

AS91STANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI




15	STR/PRE/HKR/GTD/RCC/15	FILE : FIRST FLOOR LINTEL AND CHAJJA DETAILS	NAME OF WORK :	KES
21	DATE : 13.07.2016	DRAWN BY : SC	CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA,BELAGAVI DISTRICT.	KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHRUSTI BUILDING 237/2 MAIN ANGOOL ROAD, BELAGAVI
	REV : RVC	DESIGNED BY : SC		
		CHECKED BY : HS		

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

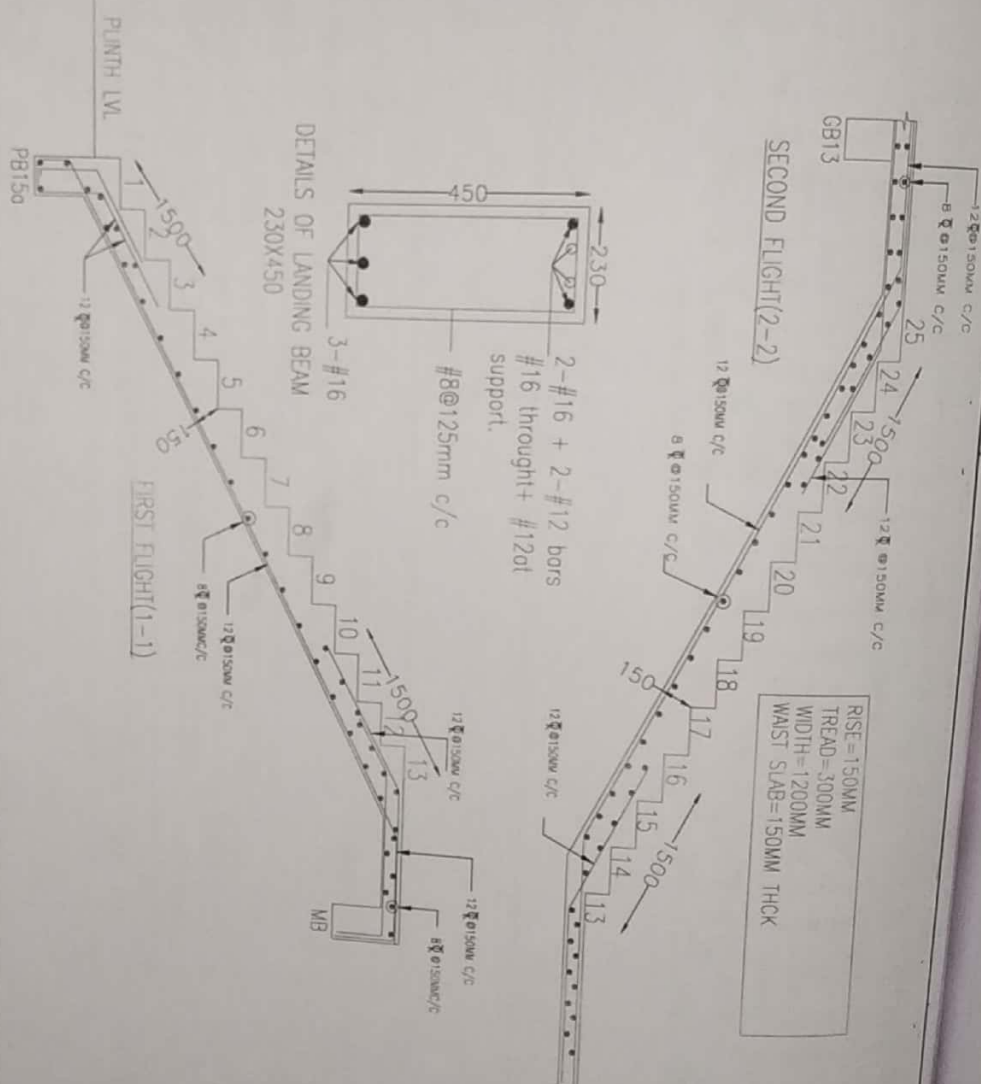
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4	22
3	23
2	24
1	25



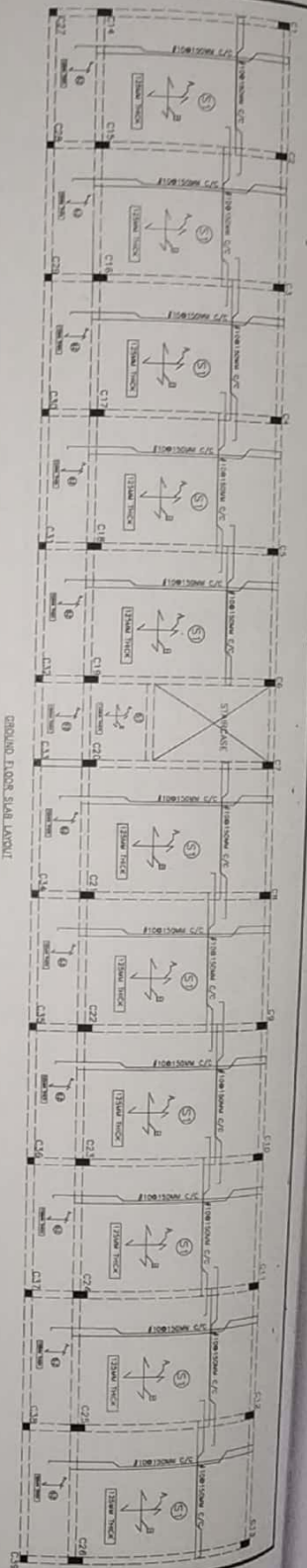
PB15a

C19 C20



<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 40px; height: 40px; margin-bottom: 5px;"></div> <div>14</div> </div> <div> <div style="border: 1px solid black; width: 40px; height: 40px; margin-bottom: 5px;"></div> <div>21</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>STR/PRE/HKR/GTD/RCC/14</div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>DATE : 13.07.2018</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>REV : RND</div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>CHECKED BY : NS</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>TITLE : (GROUND FLOOR STAIRCASE DETAILS)</div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>CLIENT : EXECUTING ENGINEER, P&E DEPT, CHIKODI DIVISION, BELGAUM DISTRICT</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>NAME OF WORK :</div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>CONSTRUCTION OF RASHTREEYA MADHYAMKA SHIKSHA ABHIVYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA,BELGAUM DISTRICT</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>KES ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHARANI BUILDING/7/3 21 FLOOR ABOVE, 50'X4' COLLEAVANS MAIN INDOOR, BANGALORE</div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 30px; margin-bottom: 5px;"></div> <div>KES</div> </div> </div>	
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ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI



GROUND FLOOR SLAB SCHEDULE:

SLAB MARK	SLAB THK	SHORT SPAN REINFORCEMENT		LONG SPAN REINFORCEMENT		REMARKS
		@ MID SPAN	@ SUPPORT	@ MID SPAN	@ SUPPORT	
S1	125MM	#10@150MM/C	#10@300MM/C	#10@150MM/C	#10@300MM/C	TWO WAY
S2	125MM	#10@150MM/C	#10@300MM/C	#8@150MM/C	#8@300MM/C	ONE WAY

STR/PRE/HKR/GTD/RCC/13		TITLE : GROUND FLOOR SLAB DETAILS		NAME OF WORK :		KES KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHRIJESTI BUILDING, 7/7/3 II FLOOR, ABOVE ROYAL COLDRINKS MAIN ANCOL ROAD, BELAGAVI.
DATE : 13.07.2018		DESIGNED BY : SC		CLIENT : EXECUTIVE ENGINEER, PRE DEPT, CHIKODI DIVISION, BELAGAVI DISTRICT.		
REV : RVO		CHECKED BY : JHS		CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.		
13		21				

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

GROUND FLOOR BEAM SCHEDULE IN V-DIR

BS/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DIA SUPPORT	STANDARD DETAILS		NO OF REINFORCEMENTS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	CENTER SPAN		FACE TO FACE TO	CENTER TO CENTER	
1	CB38	230	380	2	12	2	10	8	200	200	2
2	CB39	230	600	3	20	3	16	8	125	125	2
3	CB40	230	380	2	12	2	10	8	200	200	2
4	CB41	230	600	3	20	3	16	8	125	125	2
5	CB42	230	600	3	20	3	16	8	125	125	2
6	CB43	230	380	2	12	2	10	8	200	200	2
7	CB44	230	600	3	20	3	16	8	125	125	2
8	CB45	230	600	3	20	3	16	8	125	125	2
9	CB46	230	380	2	12	2	10	8	200	200	2
10	CB47	230	600	3	20	3	16	8	125	125	2
11	CB48	230	380	2	12	2	10	8	200	200	2
12	CB49	230	600	3	20	3	16	8	125	125	2
13	CB50	230	600	3	20	3	16	8	125	125	2
14	CB51	230	380	2	12	2	10	8	200	200	2
15	CB52	230	600	3	20	3	16	8	125	125	2
16	CB53	230	600	3	20	3	16	8	125	125	2
17	CB54	230	380	2	12	2	10	8	200	200	2
18	CB55	230	600	3	20	3	16	8	125	125	2
19	CB56	230	600	3	20	3	16	8	125	125	2
20	CB57	230	380	2	12	2	10	8	200	200	2
21	CB58	230	600	3	20	3	16	8	125	125	2
22	CB59	230	380	2	12	2	10	8	200	200	2
23	CB60	230	380	2	12	2	10	8	200	200	2
24	CB61	230	380	2	12	2	10	8	200	200	2
25	CB62	230	380	2	12	2	10	8	200	200	2
26	CB63	230	380	2	12	2	10	8	200	200	2

STR/PRE/HKR/GTD/RCC/12

TITLE: GROUND FLOOR BEAM SCHEDULE IN V-DIR

NAME OF WORK:

KES

DATE: 13/07/2016

DESIGNED BY: SEC

CLIENT: EXECUTIVE ENGINEER, CHIKODI DIVISION, BILGAWI DISTRICT

CONSTRUCTION OF RASHTRIYA MADHYAMKA SHIKSHA ABHYASNA SCHOOL BUILDING AT GUTAGUDI VILLAGE IN HUKKERI TALUKA, BILGAWI DISTRICT.

KES ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS 5/FLOOR ABOVE 2ND FLOOR, COLLEGE MAIN ROAD, SCHOOL BUILDING, BILGAWI.

REV: 1/10/16

CHECKED BY: HKS

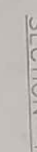
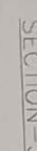
ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

GROUND FLOOR BEAM SCHEDULE IN X-DIR:

S/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT				TOP REINFORCEMENT				STIRRUPS DETAILS				NO OF LEGS	REMARKS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	DIA	SUPPORT	FACE TO 2D	CENTER SPAN							
19	GB19	230	450	2	12	2	12	2	12	8	200	200	2	-			
20	GB20	230	450	2	12	2	12	2	12	8	200	200	2	-			
21	GB21	230	450	2	12	2	12	2	12	8	200	200	2	-			
22	GB22	230	450	2	12	2	12	2	12	8	200	200	2	-			
23	GB23	230	450	2	12	2	12	2	12	8	200	200	2	-			
24	GB24	230	450	2	12	2	12	2	12	8	200	200	2	-			
25	GB25	230	450	2	12	2	12	2	12	8	200	200	2	-			
26	GB26	230	380	2	12	2	12	2	10	8	200	200	2	-			
27	GB27	230	380	2	12	2	12	2	10	8	200	200	2	-			
28	GB28	230	380	2	12	2	12	2	10	8	200	200	2	-			
29	GB29	230	380	2	12	2	12	2	10	8	200	200	2	-			
30	GB30	230	380	2	12	2	12	2	10	8	200	200	2	-			
31	GB31	230	380	2	12	2	12	2	10	8	200	200	2	-			
32	GB32	230	380	2	12	2	12	2	10	8	200	200	2	-			
33	GB33	230	380	2	12	2	12	2	10	8	200	200	2	-			
34	GB34	230	380	2	12	2	12	2	10	8	200	200	2	-			
35	GB35	230	380	2	12	2	12	2	10	8	200	200	2	-			
36	GB36	230	380	2	12	2	12	2	10	8	200	200	2	-			
37	GB37	230	380	2	12	2	12	2	10	8	200	200	2	-			

STR/PRE/HKR/GTD/RCC/11		TITLE: GROUND FLOOR BEAM SCHEDULE IN X-DIR		MADE OF WORK:		KES	
DATE: 12/07/2018	DRAWN BY: SC	CLIENT: EXECUTIVE ENGINEER, DISTRICT DIVISION, BELGAUM DISTRICT		CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHYASNA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELGAUM DISTRICT.		KES ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHREESTI BUILDING, 77/3 8 FLOOR, ABOVE RENEW COLOURS MAIN MARKET, BELGAUM.	
REV: RAO	CHECKED BY: HS						

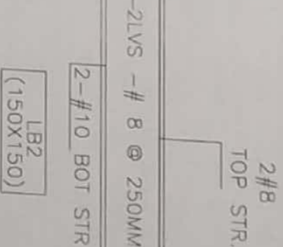
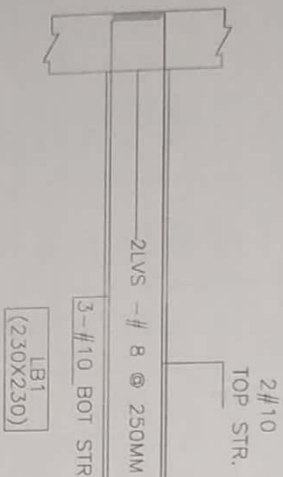
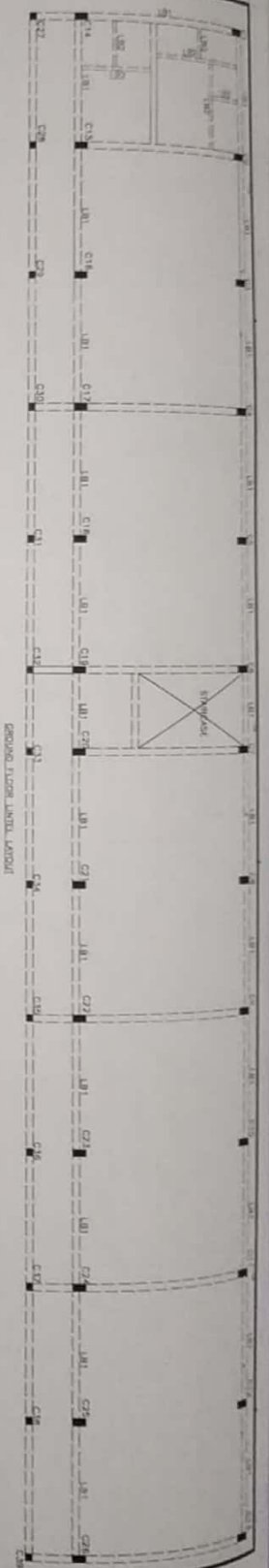
ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI



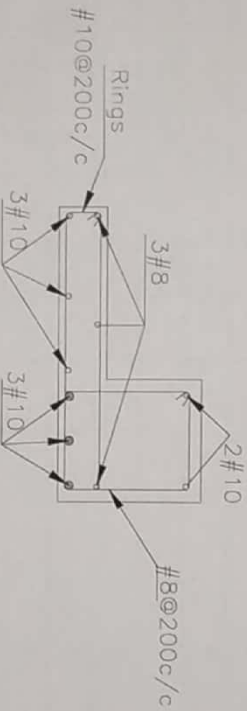
1

Shirley

**ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI**



DETAILS OF LINTEL



CHAJJA DETAILS
(EXTERNAL WALL)
75MM THK

STR/PRE/HKR/GTD/RCC/OB	DATE: 13.07.2018	DRAWN BY: SC	CHECKED BY: SC
REV: RAO	DATE: 13.07.2018	DRAWN BY: SC	CHECKED BY: SC
PROJECT: CHAJJA DETAILS LINTEL AND		CLIENT: EXECUTIVE ENGINEER, PRE DEPT. CHIKODI DIVISION, BELAGAVI DISTRICT	
NAME OF WORK:		CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.	
KES		KES ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SPRINKLE BUILDING, 25/7/3 MAIN ROAD, RAO, BELAGAVI	

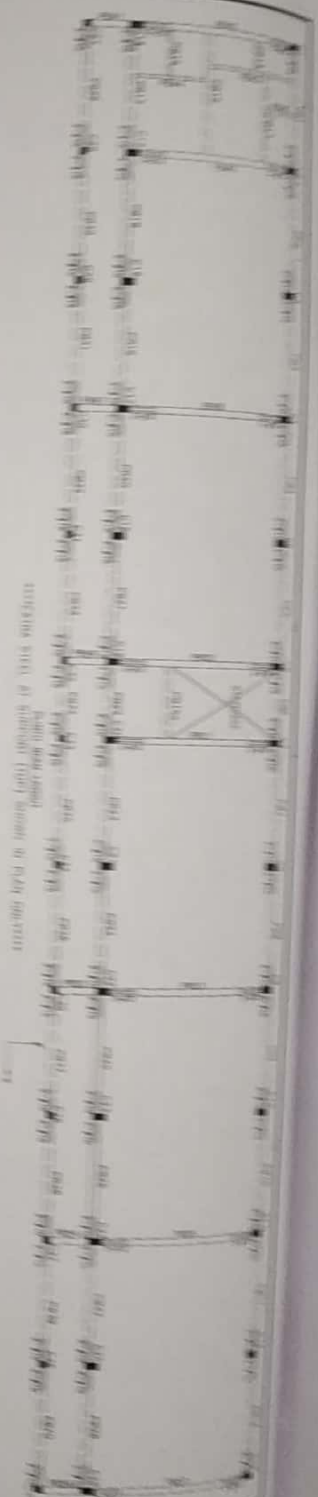
ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

RAJNITH BEAM SCHEDULE IN Y-DIR:

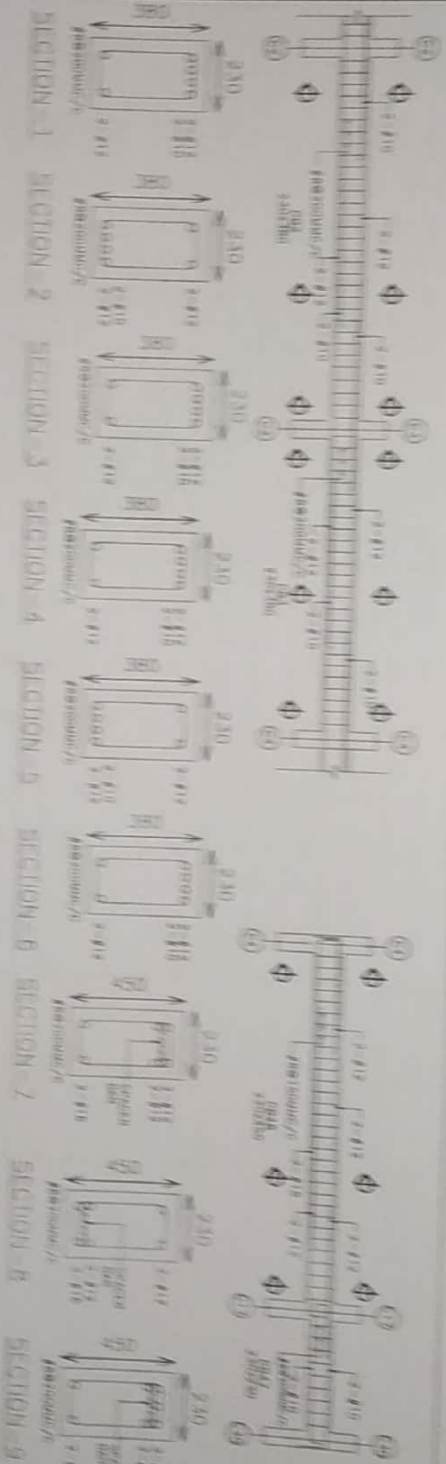
S.NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DIA	STIRRUPS DETAILS		NO OF LEGS	REMARKS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	DIA		FACE TO FACE 2D	CENTER SPAN		
1	PB41	230	230	2	10	2	10	8	200	200	2	-
2	PB42	230	450	2	16	2	12	8	150	150	2	-
3	PB43	230	300	2	10	2	10	8	200	200	2	-
4	PB44	230	230	2	10	2	10	8	200	200	2	-
5	PB45	230	230	2	10	2	10	8	200	200	2	-
6	PB46	230	450	2	16	2	12	8	150	150	2	-
7	PB47	230	230	2	10	2	10	8	200	200	2	-
8	PB48	230	450	2	16	2	12	8	150	150	2	-
9	PB49	230	230	2	10	2	10	8	200	200	2	-
10	PB50	230	450	2	16	2	12	8	150	150	2	-
11	PB51	230	450	2	16	2	12	8	150	150	2	-
12	PB52	230	230	2	10	2	10	8	200	200	2	-
13	PB53	230	450	2	16	2	12	8	150	150	2	-
14	PB54	230	230	2	10	2	10	8	200	200	2	-
15	PB55	230	450	2	16	2	12	8	150	150	2	-
16	PB56	230	230	2	10	2	10	8	200	200	2	-
17	PB57	230	450	2	16	2	12	8	150	150	2	-

STR/PRE/HKR/GID/HCC/07	DATE: 13.07.2016	DESIGNED BY: SE	CHECKED BY: MS	DATE: 13.07.2016	DESIGNED BY: SE	CHECKED BY: MS
NAME OF WORK			CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GULABODI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.			
NAME OF WORK			CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GULABODI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.			

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI



ARCHITECTURAL FLOOR PLAN OF BUILDING (NOT TO SCALE)



1	DATE: 11/11/2018 REV: 000	PROJECT: 11/11/2018 SHEET: 11/11/2018	CONSTRUCTION OF ROADSIDE MOTORWAY BRIDGE AT KALAMANGALAM VILLAGE IN TAMILNADU DISTRICT	K.T. 11/11/2018 11/11/2018
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ASSISTANT EXECUTIVE ENGINEER
FIRE SUB-DIVISION HUKKERI

Signature

Signature

PLINTH BEAM SCHEDULE IN X-DIR:

SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DIA	STIRRUPS DETAILS		NO OF LAPS	REMARKS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	CENTER SPAN		SPACE	NO OF LAPS		
19	PB18	230	380	2	12	2	10	8	200	200	2	-
20	PB19	230	380	2	12	2	10	8	200	200	2	-
21	PB20	230	380	2	12	2	10	8	200	200	2	-
22	PB21	230	380	2	12	2	10	8	200	200	2	-
23	PB22	230	380	2	12	2	10	8	200	200	2	-
24	PB23	230	380	2	12	2	10	8	200	200	2	-
25	PB24	230	380	2	12	2	10	8	200	200	2	-
26	PB25	230	380	2	12	2	10	8	200	200	2	-
27	PB26	230	380	2	12	2	10	8	200	200	2	-
28	PB27	230	380	2	12	2	10	8	200	200	2	-
29	PB28	230	380	2	12	2	10	8	200	200	2	-
30	PB29	230	380	2	12	2	10	8	200	200	2	-
31	PB30	230	380	2	12	2	10	8	150	150	2	-
32	PB31	230	380	2	12	2	10	8	200	200	2	-
33	PB32	230	380	2	12	2	10	8	200	200	2	-
34	PB33	230	380	2	12	2	10	8	150	150	2	-
35	PB34	230	380	2	12	2	10	8	150	150	2	-
36	PB35	230	380	2	12	2	10	8	150	150	2	-
37	PB36	230	380	2	12	2	10	8	150	150	2	-
38	PB37	230	380	2	12	2	10	8	200	200	2	-
39	PB38	230	380	2	12	2	10	8	150	150	2	-
40	PB39	230	380	2	12	2	10	8	150	150	2	-
41	PB40	230	380	2	12	2	10	8	150	150	2	-

	SIR/PRL/HKR/GTD/ECG/06		DATE: 13.07.2018		DRAWN BY: JC		CHECKED BY: JC		DATE: 13.07.2018		DRAWN BY: JC		CHECKED BY: JC		DATE: 13.07.2018	
	REV: 001		DATE: 13.07.2018		DRAWN BY: JC		CHECKED BY: JC		DATE: 13.07.2018		DRAWN BY: JC		CHECKED BY: JC		DATE: 13.07.2018	

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ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

PLINTH BEAM SCHEDULE IN X-DIR:

SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		CENTER SPAN		TOP REINFORCEMENT		DIA	STIRRUPS DETAILS		NO OF LEGS	REMARKS
		B	D	NO	DIA	NO	DIA	NO	DIA		FACE TO 2D	CENTER SPAN		
1	PB1	230	450	2	12	2	10	2	12	8	150	150	2	-
2	PB2	230	380	2	12	2	10	2	12	8	200	200	2	-
3	PB3	230	380	2	12	2	10	2	12	8	200	200	2	-
4	PB4	230	380	2	12	2	10	2	12	8	200	200	2	-
5	PB5	230	380	2	12	2	10	2	12	8	200	200	2	-
6	PB6	230	380	2	12	2	10	2	12	8	200	200	2	-
7	PB7	230	380	2	12	2	10	2	12	8	200	200	2	-
8	PB8	230	380	2	12	2	10	2	12	8	200	200	2	-
9	PB9	230	380	2	12	2	10	2	12	8	200	200	2	-
10	PB10	230	380	2	12	2	10	2	12	8	200	200	2	-
11	PB11	230	380	2	12	2	10	2	12	8	200	200	2	-
12	PB12	230	380	2	12	2	10	2	12	8	200	200	2	-
13	PB13	230	230	2	10	-	-	2	10	8	200	200	2	-
14	PB14	230	230	2	10	-	-	2	10	8	200	200	2	-
15	PB15	230	450	2	12	2	10	2	12	8	150	150	2	-
16	PB15a	230	450	2	12	2	10	2	12	8	150	150	2	-
17	PB16	230	230	2	10	-	-	2	10	8	200	200	2	-
18	PB17	230	380	2	12	2	10	2	12	8	200	200	2	-

STR/PRE/HKR/GTD/RCC/05		DATE: 13.07.2016		CHECKED BY: JMS		DATE: 13.07.2016		CHECKED BY: JMS		NAME OF WORK: CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHYAS SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELGAUM DISTRICT		KES K&N ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS BRIDGE BUILDING DIVISION 1 FLOOR ABOVE ROAD, COLUMNS 800x800mm, BEAMS 200x200mm	
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ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

T.O.C EL (+450MM)

PLINTH BEAM

NGL (0.00)

DOWELS

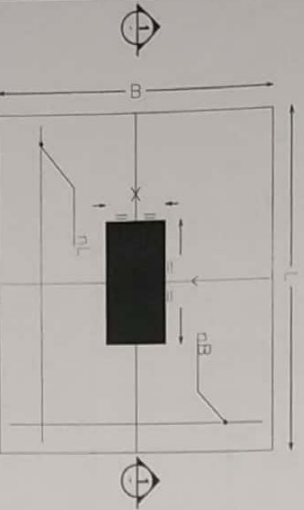
LATERAL TIES TO BE CONTINUED
TILL BASE OF COLUMN

SECTION 1-1

200MM BOLDER SOILING

EL (-) 1500MM

MAIN REFT



FOOTING DETAILS

STR/PRE/HKR/OTD/RCC/03

DATE: 13.07.2018

REV: R40

DESIGNED BY: JSC

CHECKED BY: JMS

TITLE: TYPICAL DETAILS OF FOOTING & BEAM

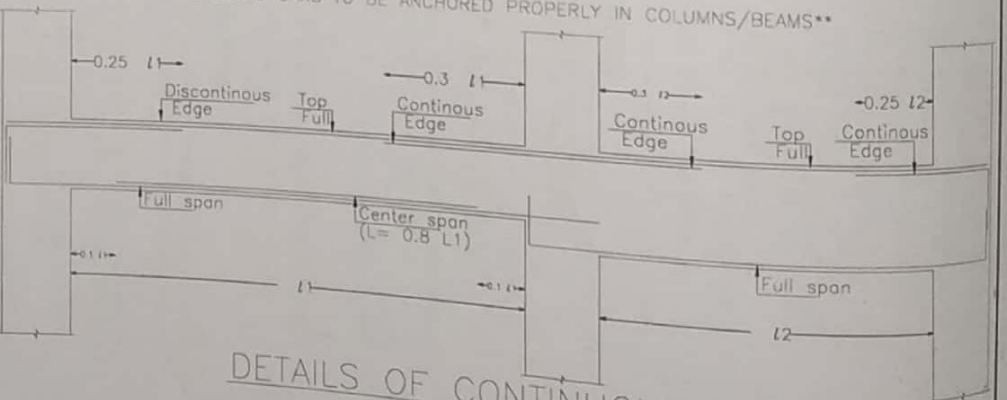
CLIENT: EXECUTIVE ENGINEER,
PRE DEPT,
CHIKODI DIVISION,
BELAGAVI DISTRICT

NAME OF WORK:

CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA
ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN
HUKKERI TALUKA, BELAGAVI DISTRICT.

KES
KES ENGINEERING SOLUTIONS
CONSULTING STRUCTURAL ENGINEERS
SHIKSHI BUILDING, 21/2 GULMANG
WANI ANDANI ROAD, BELAGAVI

** ALL BEAMS BARS TO BE ANCHORED PROPERLY IN COLUMNS/BEAMS **



DETAILS OF CONTINUOUS BEAM

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ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED NEITHER SCALED FROM THE DRAWING.
3. ANY DISCREPANCY IN THE STRUCTURAL DRAWING SHALL BE INTIMATED TO THIS OFFICE AND GOT RECTIFIED BEFORE EXECUTION.
4. THE STRUCTURAL DRAWING TO BE READ WITH RELEVANT ARCHITECTURAL DRAWING.
5. REINFORCEMENT PLACING TO BE VERIFIED BY ENGINEER IN CHARGE BEFORE CONCRETING
6. CENTERING / SCAFFOLDING DESIGN IS CONTRACTORS RESPONSIBILITY

NOTE ON S.B.C.

1. IT SHOULD BE NOTED THAT FOUNDATIONS ARE DESIGNED FOR BEARING SURFACE HAVING MINIMUM NET SAFE BEARING CAPACITY OF 16.70 T/ SQM AT 1.50 M DEPTH.
2. IF DURING EXCAVATION ANY OTHER SOIL MET WITH THE FOUNDATION LVL, IT SHOULD BE BROUGHT TO THE NOTICE OF THE STRUCTURAL CONSULTANTS BEFORE THE EXECUTION.
3. THE BUILDING IS DESIGNED FOR G+1 ONLY

CONCRETE COVER

REINFORCEMENT SHALL HAVE CONCRETE COVER (EXCLUSIVE OF PLASTER OR OTHER DECORATIVE FINISH) AS FOLLOWS:-

- A) FOOTING = 50mm
- B) COLUMN = 40MM (FOR OUTER FACE OF LATERAL TIES)
- C) PLINTH BEAM = 30mm
- D) FLOOR BEAMS = 25 mm
- E) SLAB = 20mm
- F) STAIR WAIST SLAB = 20mm
- G) Lintel = 20mm
- H) CH-ALA = 15mm

LAP / DEVELOPMENT LENGTH, DETAILING

1. LAP / DEVELOPMENT LENGTH FOR ALL REINF. BARS, SHALL BE 50 X DIA OF THE BARS FOR M20 MIX.
2. LAPS SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAXIMUM BENDING MOMENT.
3. NOT MORE THAN 50% OF TOTAL COL. BARS SHALL BE LAPPED AT ANY SECTION OF COLUMN. LAPS SHALL BE STAGGERED AND AVOIDED AT THE PLACES OF MAX. STRESS. A LAP SHALL BE CONSIDERED STAGGERED IF THE CENTRE TO CENTRE DISTANCE OF THE LAP IS NOT LESS THAN 1.3 TIMES THE DEVELOPMENT LENGTH AS MENTIONED IN NOTE NO. (1).
4. COLUMN LAP TO BE @ MID OF FLOOR HEIGHT.
5. ADEQUATE CHAIRS, COVER BLOCKS TO BE PROVIDED FOR REINFORCEMENT
6. PROVIDE 25MM Ø PIN BARS BETWEEN TWO LAYERS OF BARS IN BEAM

MATERIAL SPECIFICATION

1. CEMENT TO CONFORM TO THE SPECIFICATIONS IN I.S.-269-1989, I.S.8112-1982 AND OTHER RELEVANT APPLICABLE STDS.
2. ALL STEEL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO I.S: 1786-1985 WITH MIN. YIELD STRESS / 0.2% PROOF STRESS OF 500 N/ SQMM (GRADE Fe 500)
3. AGGREGATES TO COMPLY WITH REQUIREMENTS OF I.S. 383-1970.
4. WATER USED FOR CONCRETING AND CURING SHALL BE IN ACCORDANCE WITH ARTICLE 4.3, I.S. 456 - 2000

GRADE OF MATERIALS

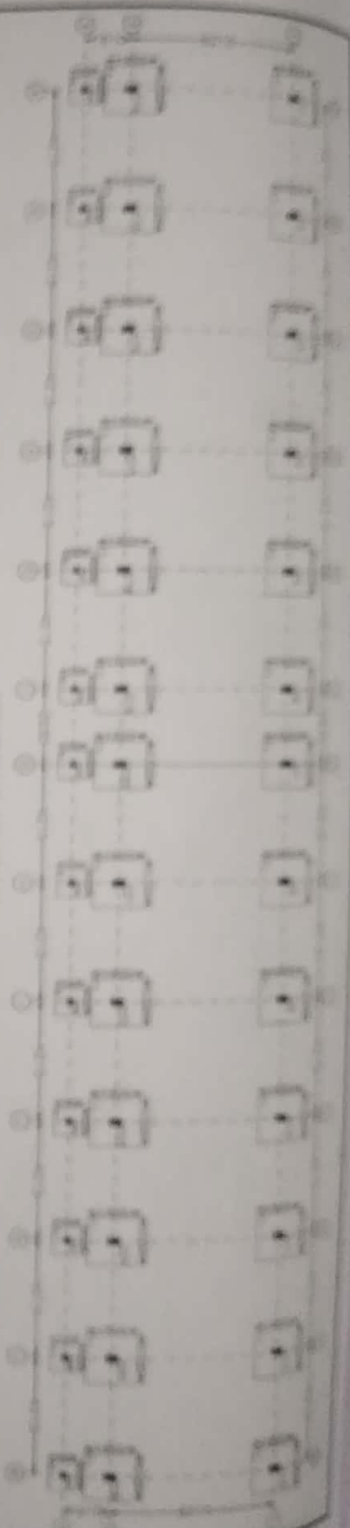
1. ALL R.C.C. WORK SHALL BE IN M-20 GRADE MIX UNLESS SPECIFIED.
2. ALL STEEL REINFORCEMENT SHALL BE H.Y.S.D. OF GRADE Fe 500

NOTES ON CONSTRUCTION JOINT

1. DURING CASTING OF BEAM IF THE WORK IS STOPPED FOR A DURATION LONGER THAN INITIAL SETTING TIME OF CEMENT, THEN SUCH DISCONTINUITY SHALL BE TREATED AS CONSTRUCTION JOINTS.
2. CONSTRUCTION JOINT SHALL BE MADE VERTICAL BY PROPER TEMPLATE WITH SLOTS FOR ACCOMMODATING REINF. BARS. THE JOINT SHALL BE TREATED IN ACCORDANCE WITH C.P.W.D. SPECIFICATION
3. CONSTRUCTION JOINT SHALL BE PLANNED AT 0.35L FROM THE FACE OF THE SUPPORT WHERE 'L' IS THE CLEAR SPAN OF SLAB/BELM
4. CONSTRUCTION JOINTS, SHALL BE AS PER I.S. 11817.

1	STR/PRE/HKR/GTD/RCC/01	TITLE: GENERAL NOTES	NAME OF WORK: CONSTRUCTION OF RASHTRIYA MADHYAMIK SHIKSHA ABHYASNA SCHOOL BUILDING AT GUTTAQUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.	KES KARAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHIKSHI BUILDING 23/71 II FLOOR ABOVE ROYAL GARDENS MAIN ANDOL ROAD, BELAGAVI.
	DATE: 13.07.2018 REV: PWD	DRAWN BY: SC DESIGNED BY: SC CHECKED BY: HAS		

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI



SECTIONAL TOP VIEW OF BUILDING FOR THE 10th FLOOR

Room No.	Room Name	Dimensions (ft)			Area (sq ft)	Volume (cu ft)	Notes
		Length	Width	Height			
1	Office	12	10	10	120	1200	
2	Office	12	10	10	120	1200	
3	Office	12	10	10	120	1200	
4	Office	12	10	10	120	1200	
5	Office	12	10	10	120	1200	
6	Office	12	10	10	120	1200	
7	Office	12	10	10	120	1200	
8	Office	12	10	10	120	1200	
9	Office	12	10	10	120	1200	
10	Office	12	10	10	120	1200	

SECTIONAL TOP VIEW OF BUILDING FOR THE 11th FLOOR

Room No.	Room Name	Dimensions (ft)			Area (sq ft)	Volume (cu ft)	Notes
		Length	Width	Height			
1	Office	12	10	10	120	1200	
2	Office	12	10	10	120	1200	
3	Office	12	10	10	120	1200	
4	Office	12	10	10	120	1200	
5	Office	12	10	10	120	1200	
6	Office	12	10	10	120	1200	
7	Office	12	10	10	120	1200	
8	Office	12	10	10	120	1200	
9	Office	12	10	10	120	1200	
10	Office	12	10	10	120	1200	

DATE: 10/10/2023

BY: [Signature]

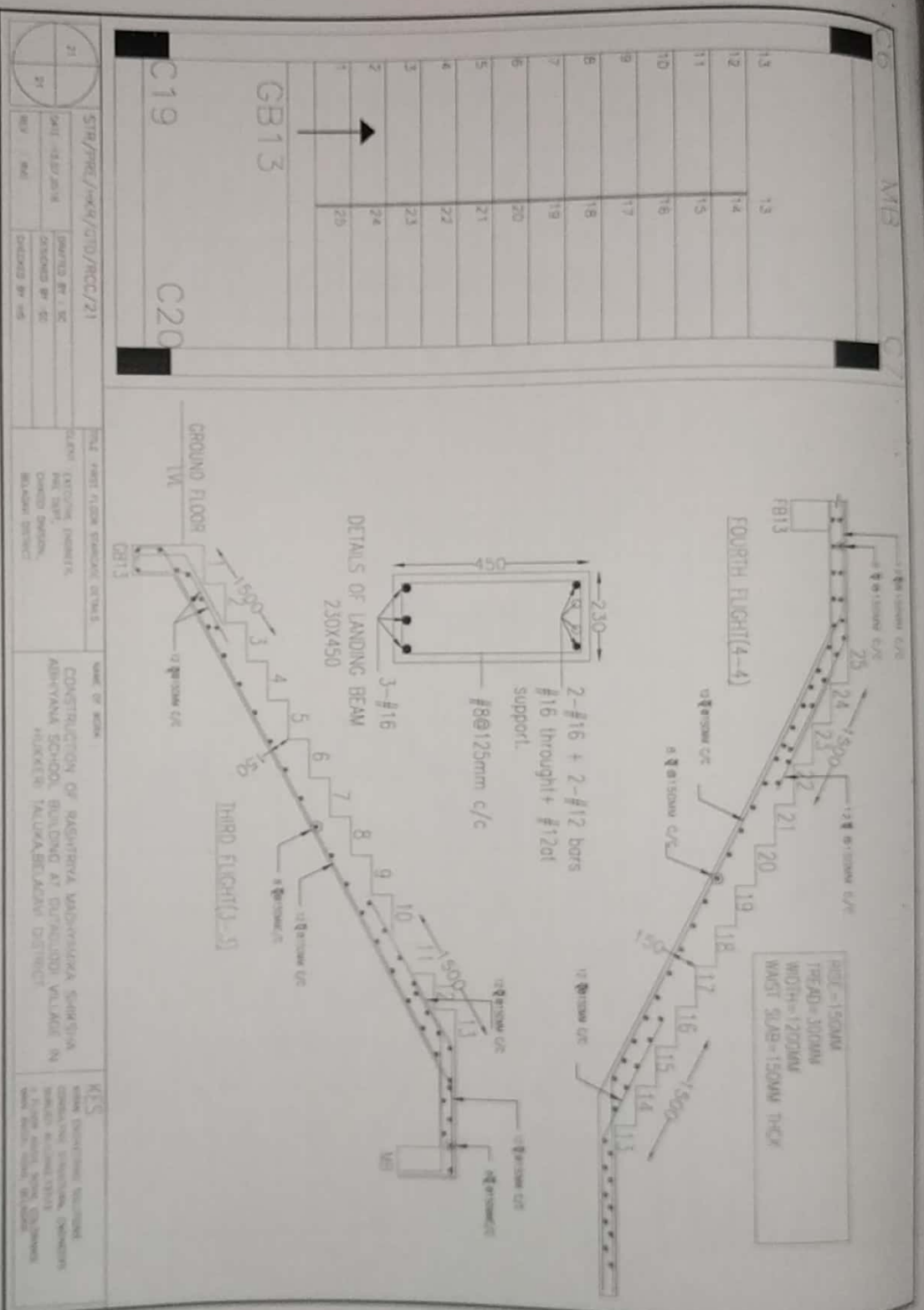
PROJECT: [Project Name]

SCALE: 1/8" = 1'-0"

REVISIONS:

No.	Description
1	Initial Design
2	Revised Design

ASSISTANT EXECUTIVE ENGINEER
PRE-SUBDIVISION HUNTERD



ASSISTANT EXECUTIVE ENGINEER
 PRE SUB-DIVISION HUKKERI

FIRST FLOOR BEAM SCHEDULE IN X-DIR:

SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DIA	STIRRUPS DETAILS		NO OF LEGS	REMARKS
		B	D	FULL SPAN	CENTER SPAN	FULL SPAN	CENTER SPAN		FACE TO FACE	CENTER SPAN		
19	FB19	230	450	2	12	2	12	2	12	2	2	-
20	FB20	230	450	2	12	2	12	2	12	2	2	-
21	FB21	230	450	2	12	2	12	2	12	2	2	-
22	FB22	230	450	2	12	2	12	2	12	2	2	-
23	FB23	230	450	2	12	2	12	2	12	2	2	-
24	FB24	230	450	2	12	2	12	2	12	2	2	-
25	FB25	230	450	2	12	2	12	2	12	2	2	-
26	FB26	230	380	2	12	2	12	2	10	2	2	-
27	FB27	230	380	2	12	2	12	2	10	2	2	-
28	FB28	230	380	2	12	2	12	2	10	2	2	-
29	FB29	230	380	2	12	2	12	2	10	2	2	-
30	FB30	230	380	2	12	2	12	2	10	2	2	-
31	FB31	230	380	2	12	2	12	2	10	2	2	-
32	FB32	230	380	2	12	2	12	2	10	2	2	-
33	FB33	230	380	2	12	2	12	2	10	2	2	-
34	FB34	230	380	2	12	2	12	2	10	2	2	-
35	FB35	230	380	2	12	2	12	2	10	2	2	-
36	FB36	230	380	2	12	2	12	2	10	2	2	-
37	FB37	230	380	2	12	2	12	2	10	2	2	-

STR/PRE/HKR/GTD/RCC/18		TITLE: FIRST FLOOR BEAM SCHEDULE IN X-DIR		NAME OF WORK:		KES	
DATE: 11.07.2018	DRAWN BY: SC	CLIENT: EXECUTIVE ENGINEER, CHIKODI DIVISION, BELAGAVI DISTRICT	CONSTRUCTION OF RASHTRIYA WADHYAMUKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.			KES ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHIKSHI BUILDING, 737/3 1 FLOOR ABOVE ROYAL COLLEGE MAIN ROAD, BELAGAVI.	
REV: 001	CHECKED BY: JHS						

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

FIRST FLOOR BEAM SCHEDULE IN Y-DIR:

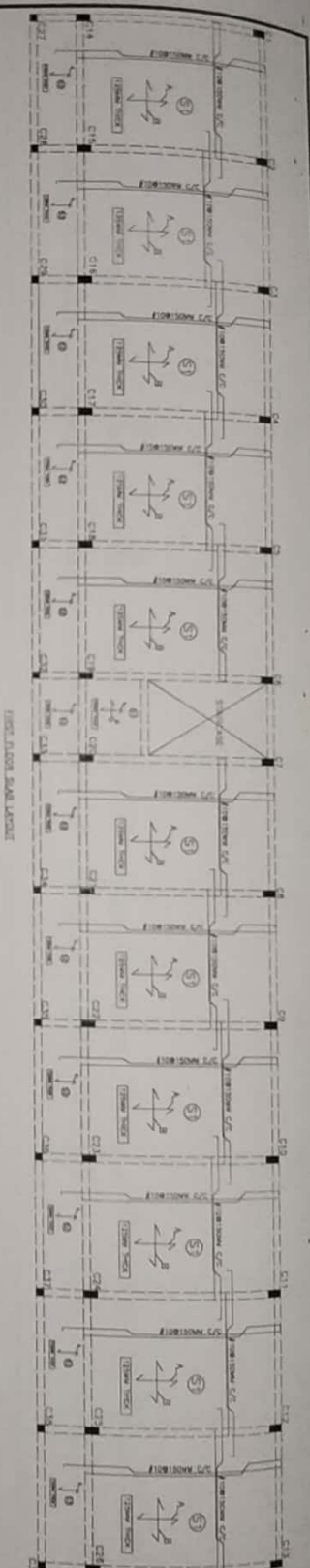
SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			STIRRUPS DETAILS			NO OF LIGS	REMARKS
		B	D	NO	DIA	CENTER SPAN	NO	DIA	FULL SPAN	DIA	SUPPORT	FACE TO FACE TO CENTER SPAN		
1	FB38	230	380	2	12	-	2	10	10	8	200	200	2	-
2	FB39	230	600	3	20	2	16	16	16	8	125	125	2	-
3	FB40	230	380	2	12	-	2	10	10	8	200	200	2	-
4	FB41	230	600	3	20	2	16	16	16	8	125	125	2	-
5	FB42	230	600	3	20	2	16	16	16	8	125	125	2	-
6	FB43	230	380	2	12	-	2	10	10	8	200	200	2	-
7	FB44	230	600	3	20	2	16	16	16	8	125	125	2	-
8	FB45	230	600	3	20	2	16	16	16	8	125	125	2	-
9	FB46	230	380	2	12	-	2	10	10	8	200	200	2	-
10	FB47	230	600	3	20	3	16	16	16	8	125	125	2	-
11	FB48	230	380	2	12	-	2	10	10	8	200	200	2	-
12	FB49	230	600	3	20	3	16	16	16	8	125	125	2	-
13	FB50	230	600	3	20	2	16	16	16	8	125	125	2	-
14	FB51	230	380	2	12	-	2	10	10	8	200	200	2	-
15	FB52	230	600	3	20	2	16	16	16	8	125	125	2	-
16	FB53	230	600	3	20	2	16	16	16	8	125	125	2	-
17	FB54	230	380	2	12	-	2	10	10	8	200	200	2	-
18	FB55	230	600	3	20	2	16	16	16	8	125	125	2	-
19	FB56	230	600	3	20	2	16	16	16	8	125	125	2	-
20	FB57	230	380	2	12	-	2	10	10	8	200	200	2	-
21	FB58	230	600	3	20	2	16	16	16	8	125	125	2	-
22	FB59	230	380	2	12	-	2	10	10	8	200	200	2	-
23	FB60	230	380	2	12	-	2	10	10	8	200	200	2	-
24	FB61	230	380	2	12	-	2	10	10	8	200	200	2	-
25	FB62	230	380	2	12	-	2	10	10	8	200	200	2	-
26	FB63	230	380	2	12	-	2	10	10	8	200	200	2	-

19	STR/PRE/HKR/GTD/RCC/19		TITLE: FIRST FLOOR BEAM SCHEDULE IN Y-DIR		NAME OF WORK:	
21	DATE: 13.07.2018	DRAFTED BY: SC	CLIENT: EXECUTIVE ENGINEER, PRE DEPT, CHIKODI DIVISION, BELAGAVI DISTRICT.	CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.		KES KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHRUSTI BUILDING, 237/3 II FLOOR ABOVE ROYAL COLONY, MAIN ANKOD ROAD, BELAGAVI.
	REV: RAO	CHECKED BY: JHS				

[Signature]

[Signature]

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

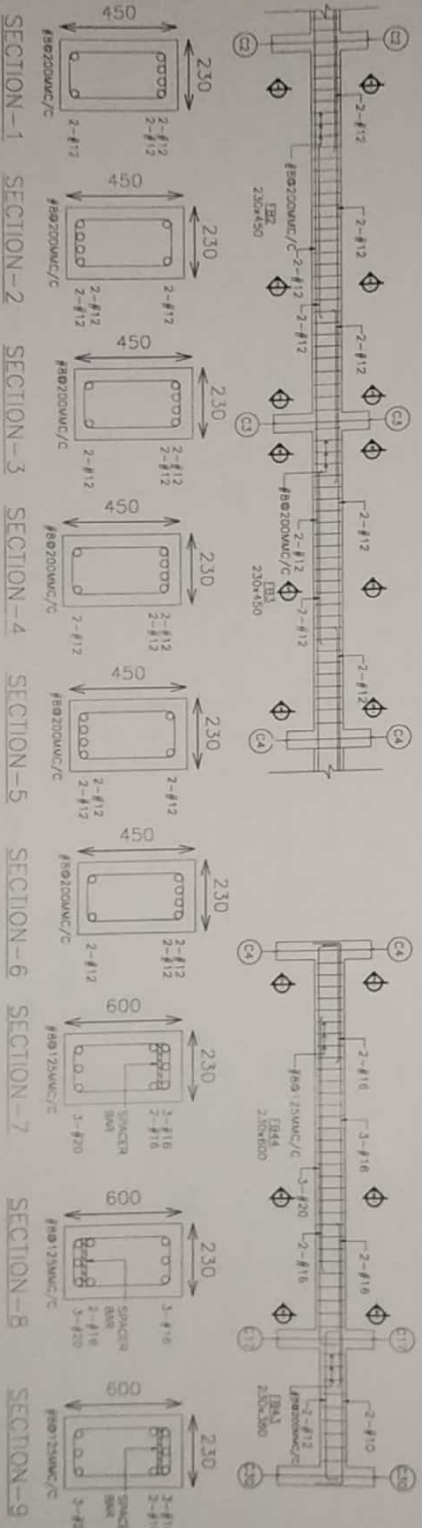
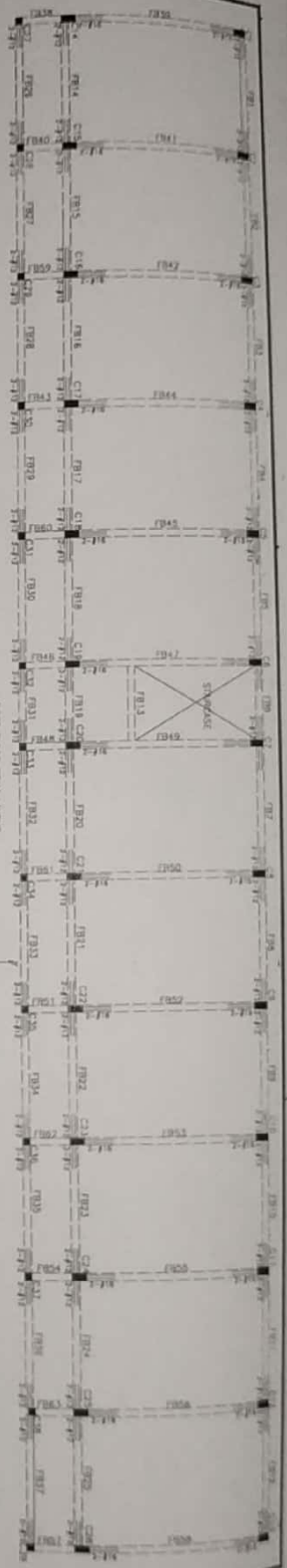


FIRST FLOOR SLAB SCHEDULE:

SLAB MARK	SLAB THK	SHORT SPAN REINFORCEMENT		LONG SPAN REINFORCEMENT		REMARKS
		@ MID SPAN	@ SUPPORT	@ MID SPAN	@ SUPPORT	
S1	125MM	#10@150MM/C	#10@300MM/C	#10@150MM/C	#10@300MM/C	TWO WAY
S2	125MM	#10@150MM/C	#10@300MM/C	#8@150MM/C	#8@300MM/C	ONE WAY

STR/PRE/HKR/GTD/RCC/20		TITLE : FIRST FLOOR SLAB DETAILS		NAME OF WORK :		KES KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS 8/ FLOOR ABOVE, 20TH, COLONY, MAIN ROAD, BANGALORE, KARNATAKA
DATE : 13.03.2018	DESIGNED BY : SC	CLIENT : EXECUTIVE ENGINEER, PRE DEPT., CHIKODI DIVISION, BELAGAVI DISTRICT		CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTAGUDDI VILLAGE IN HUKKERI TALUKA, BELAGAVI DISTRICT.		
REV :	NO :	CHECKED BY : MS				

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI



<div>16</div> <div>21</div>	STR/PRE/HKR/GTD/RCC/16 DATE 13/07/2018 DESIGNED BY SC CHECKED BY JHS	TITLE : FIRST FLOOR BEAM LAYOUT & RE DETAILS CLIENT : EXECUTIVE ENGINEER, P&E DEPT., CHICAGO DIVISION, BILGAON DISTRICT	NAME OF WORK : CONSTRUCTION OF RASHTRIYA MADHYAMIKA SHIKSHA ABHIYANA SCHOOL BUILDING AT GUTTAJODDI VILLAGE IN HUKKERI TALUKA, BELGAUM DISTRICT.	KES WORK ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS 6 FLOOR, 100/101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000
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ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI

FIRST FLOOR BEAM SCHEDULE IN X-DIR:

SL/NO	BEAM NO	SIZE		BOTTOM REINFORCEMENT		CENTER SPAN		TOP REINFORCEMENT		DIA	STIRRUPS DETAILS		NO OF LEGS	REMARKS
		B	D	NO	DIA	NO	DIA	NO	DIA		FACE TO 2D	CENTER SPAN		
1	FB1	230	450	2	12	2	12	2	12	8	200	200	2	-
2	FB2	230	450	2	12	2	12	2	12	8	200	200	2	-
3	FB3	230	450	2	12	2	12	2	12	8	200	200	2	-
4	FB4	230	450	2	12	2	12	2	12	8	200	200	2	-
5	FB5	230	450	2	12	2	12	2	12	8	200	200	2	-
6	FB6	230	450	2	12	2	12	2	12	8	200	200	2	-
7	FB7	230	450	2	12	2	12	2	12	8	200	200	2	-
8	FB8	230	450	2	12	2	12	2	12	8	200	200	2	-
9	FB9	230	450	2	12	2	12	2	12	8	200	200	2	-
10	FB10	230	450	2	12	2	12	2	12	8	200	200	2	-
11	FB11	230	450	2	12	2	12	2	12	8	200	200	2	-
12	FB12	230	450	2	12	2	12	2	12	8	200	200	2	-
13	FB13	230	450	2	12	2	12	2	12	8	200	200	2	-
14	FB14	230	450	2	12	2	12	2	12	8	200	200	2	-
15	FB15	230	450	2	12	2	12	2	12	8	200	200	2	-
16	FB16	230	450	2	12	2	12	2	12	8	200	200	2	-
17	FB17	230	450	2	12	2	12	2	12	8	200	200	2	-
18	FB18	230	450	2	12	2	12	2	12	8	200	200	2	-

STR/PRE/HKR/GTD/ROC/17		TITLE FIRST FLOOR BEAM SCHEDULE IN X-DIR		NAME OF WORK :		KES	
DATE : 12.07.2018	DRAWN BY : SC	CLIENT : EXECUTIVE ENGINEER, PRE DEPT., CHIKODI DIVISION, BELGAUM DISTRICT.	CONSTRUCTION OF RASHTRIYA MADHYAM/KA SHIKSHA ABHIVYANA SCHOOL BUILDING AT GUYAGUDDI VILLAGE IN HUKKERI TALUKA, BELGAUM DISTRICT.			KIRAN ENGINEERING SOLUTIONS CONSULTING STRUCTURAL ENGINEERS SHRIKSHI BUILDING, 77/3 II FLOOR ABOVE ROYAL COLDRINGS MAIN ANCOL ROAD, BELGAUM.	
REV	PAID	CHECKED BY : AS					

ASSISTANT EXECUTIVE ENGINEER
PRE SUB-DIVISION HUKKERI